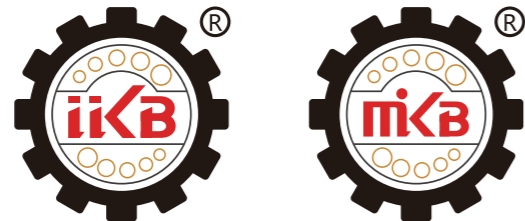


深圳市键特电子有限公司
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KEY TECHNOLOGY CHINA LIMITED



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MIL-STD-810H RUGGED SILICONE KEYBOARD

Rugged Keyboards and Mice Expert



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Company Profile

Established in 2006, Key Technology China Limited is an ISO9001-2015 and GJB9001C-2017 registered enterprise engaged in research, development, sale and service of all kinds of rugged keyboards/pointing devices for harsh environments covering industrial/military/marine/medical/coal and mine/oil and gas/chemical industry/transportation/finance/aerospace/public access/food and beverage/vehicle etc. applications. We have excellent and experienced teams who focus on product development & design, quality control and company running, dedicated to strict quality control and thoughtful customer service, our experienced staff are always available to provide ideal solutions to customers. Besides, our products have obtained many professional certificates/testing reports including but not limited to CE, RoHS, FCC, ESD, REACH, IEC60945-2002, MIL-STD-461G-EMC-EMI-EMS-ESD, MIL-STD-810H, IP67, IP68, Medical, Explosive-proof, high and low temperature testing as well as patent certificates.

Advantages of this series of products

1. NO MOQ
2. MIL-STD-461G-EMC-EMI-EMS-ESD optional
3. Fully sealed and ruggedized, perform well in dynamic waterproof/dust and sandstorm-proof
4. A reinforced and rugged stainless steel or aluminum back plate for installation optional, if no weight limit
5. Designed to meet these 10 critical standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity
6. Designed to meet MIL-STD-810H-Environmental adaptability (high and low wide temperature of -40°C to +75°C, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.);

Disadvantages of this series of products

1. Heavy tactile feeling, possible to have uneven actuation of every key
2. The whole rugged structure is a bit thicker and heavier due to the silicone cover and PCB board
3. Keyboard and casing are sealed with glue, it will be inconvenient to replace or maintain
4. Non-vandalproof, when the side of keys is pressed or squeezed vigorously, there will be risk of broken sloping sidewall
5. When pressing the side or four corners of keys, the four corners and sides of keys cannot fall at the same time due to its internal structure, and might be tilt;
6. Fast typing tends to cause fatigue, also there will be the possibility of sticking keys, missing key value, or repeated key value output, which can be optimized by improving the key structure, material and program, but cannot be completely avoided and eliminated;

★ Patent No.: ZL 2024 3 0193876.7

CONTENTS

01

Rugged Silicone Rubber Keyboard

Product Application



★ Feature and Reliability ★

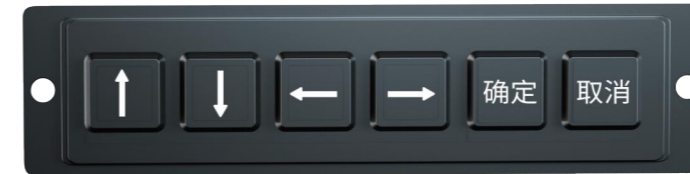
Designed to meet the critical military standards in these 10 aspects

| | |
|----|----------------------------|
| 01 | Reliability |
| 02 | Safety |
| 03 | Maintainability |
| 04 | Testability |
| 05 | Supportability |
| 06 | Environmental Adaptability |
| 07 | Stability |
| 08 | Compatibility |
| 09 | Consistency |
| 10 | Continuity |

Environmental Adaptability

MIL-STD-810H (high and low wide temperature (-40°C+75°C), low pressure (Altitude), humidity, vibration, shock, salt fog, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.)

| | |
|----|--|
| 01 | Low Pressure (57kPa - 106kPa) |
| 02 | High Temperature (+75 °C) |
| 03 | Low Temperature (-40 °C) |
| 04 | Temperature Shock (-55 °C to +75 °C) |
| 05 | Rain Test (Wind velocity: no less than 18m/s, test duration: 3h) |
| 06 | Humidity (-30 °C to +60 °C, 95%RH) |
| 07 | Fungus (Test period: 28 days (672h)) |
| 08 | Salt Spray (Test period: 96h, IEC60512-6) |
| 09 | Low Frequency Vibration |
| 10 | Dust Test (10.6g/m ³ ±7g/m ³) |
| 11 | Vibration (Frequency: 0-2000Hz, Displacement: 1mm, Acceleration:70m/s ²) |
| 12 | Shock (40g, 11ms) |
| 13 | Drop Test (Drop height: 122cm) |



Part Number: K-TEK-M18FK

Mechanical Data

| | |
|------------------|------------------------|
| Keys: | 6 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.10KG |
| Dimension: | 96.0mm x 18.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Feature

IP65 dynamic waterproof silicone matrix function keypad with totally sealed and ruggedized PCB with carbon-on-gold key switch technology with key stroke 1.5mm with excellent tactile feeling for stable and accurate data input. Rear panel mounting. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion. Designed to meet with MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and MIL-STD-461G-EMC-EMI-EMS-ESD (optional), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.



Feature

IP65 rated sealed & ruggedized silicone matrix function keypad, with carbon-on-gold key switch technology with key stroke (1.50mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, matrix output without electronics controller, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, industrial white backlight included, top panel mounted solution. Designed to meet with MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and MIL-STD-461G-EMC-EMI-EMS-ESD (optional), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.



Part Number: K-TEK-M32FK-4-AC-BL

Mechanical Data

| | |
|------------------|------------------------|
| Keys: | 4 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.10KG |
| Dimension: | 96.0mm x 32.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | Dot matrix |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP67 fully sealed and durable embedded ultra thin rugged numeric keypad, with integrated military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping. Keyboard surface uses ultra rugged P+R technology (PC keycaps + Rubber), there will be no key value missing, no stuck key during operation, with durable coating & anti-microbial keyboard surface withstand most chemicals and liquids under harsh environment. Adjustable white backlight included, panel mount solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, drop, rain, salt mist, sand & dust, fungus, solar radiation etc.), and MIL-STD-461G-EMC-EMI-EMS-ESD (optional), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.



Part Number: K-TEK-M68KP-12-BL-KC-ML

Mechanical Data

| | |
|------------------|------------------------|
| Keys: | 12 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈ 0.20KG |
| Dimension: | 68.0mm x 90.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≤30mA when backlight is off, ≤300mA with backlight on |
| Connect Interface: | USB |
| OS: | All Windows, Linux, Unix, Mac OSX, Vxworks, Android, (U-cos--To be confirmed). |

Reliability

| | |
|--|--|
| RoHS compliant, CE and FCC certified, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP67 (front panel) |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -50°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature



IP65 rated sealed & ruggedized silicone matrix function keypad, with carbon-on-gold key switch technology with key stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, matrix output without electronics controller, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, industrial white backlight included, top panel mounted solution. Designed to meet with MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and MIL-STD-461G-EMC-EMI-EMS-ESD (optional), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M70KP-12-AC-BL

Mechanical Data

| | |
|------------------|------------------------|
| Keys: | 12 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.40KG |
| Dimension: | 70.0mm x 96.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈100mA |
| Connect Interface: | Dot matrix |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +65°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature



IP67 fully sealed and durable embedded ultra thin rugged numeric keypad with integrated military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping. Keyboard surface uses ultra rugged P+R technology (PC keycaps + Rubber), there will be no key value missing, no stuck key during operation, with durable coating & anti-microbial keyboard surface withstand most chemicals and liquids under harsh environment. Adjustable white backlight included, panel mount solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, drop, rain, salt mist, sand & dust, fungus, solar radiation etc.), and MIL-STD-461G-EMC-EMI-EMS-ESD (optional), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M86KP-16-BL-KC-ML

Mechanical Data

| | |
|------------------|------------------------|
| Keys: | 16 keys |
| Key Travel::: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈ 0.30KG |
| Dimension: | 86.0mm x 90.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≤30mA when backlight is off, ≤300mA with backlight on |
| Connect Interface: | USB |
| OS: | All Windows, Linux, Unix, Mac OSX, Vxworks, Android, (U-cos--To be confirmed). |

Reliability

| | |
|--|--|
| RoHS compliant, CE and FCC certified, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP67 (front panel) |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -50°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature



IP65 dynamic sealed & ruggedized silicone rubber keypad with integrated military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, rear panel mount solution with mounting holes. Adjustable WHITE backlight included, with USB interface. The whole keyboard is designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, salt mist, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M87KP-18-BL-ML

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 18 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.30KG |
| Dimension: | 87.0 mm x 106.0mmL x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈150mA |
| Connect Interface: | USB |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature



IP67 fully sealed and durable embedded ultra thin rugged keyboard with integrated military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping. Keyboard surface uses ultra rugged P+R technology (PC keycaps + Rubber), there will be no key value missing, no stuck key during the keyboard operation, with durable coating & anti-microbial keyboard surface withstand most chemicals and liquids under harsh environment. Adjustable white backlight included, panel mount solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, drop, rain, salt mist, sand & dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M87KP-18-BL-KC-ML

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 18 keys |
| Key Travel::: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈ 0.30KG |
| Dimension: | 87.0mm x 106.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≤30mA when backlight is off, ≤300mA with backlight on |
| Connect Interface: | USB |
| OS: | All Windows, Linux, Unix, Mac OSX, Vxworks, Android, (U-cos--To be confirmed). |

Reliability

| | |
|---|--|
| RoHS compliant, CE and FCC certified, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.). | |
| Protection Level: | IP67 (front panel) |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -50°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M90TP-KP-IL-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with sealed and ruggedized touchpad for fast and accurate cursor position, with integrated numeric keypad, with carbon-on-gold key switch technology with key stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, 2 mouse buttons designed for right & left clicking, with mounting holes for rear panel mounting. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 16+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.30KG |
| Dimension: | 78.0mm x 124.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M100KP-16-BL-KC-ML

Feature

IP67 fully sealed and durable embedded ultra thin rugged numeric keypad with integrated military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping. Keyboard surface uses ultra rugged P+R technology (PC keycaps + Rubber), there will be no key value missing, no stuck key during operation, with durable coating & anti-microbial keyboard surface withstand most chemicals and liquids under harsh environment. Adjustable white backlight included, rear panel mount solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, drop, rain, salt mist, sand & dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 16 keys |
| Key Travel::: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈ 0.35KG |
| Dimension: | 100.0mm x 90.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≤30mA when backlight is off, ≤300mA with backlight on |
| Connect Interface: | USB |
| OS: | All Windows, Linux, Unix, Mac OSX, Vxworks, Android, (U-cos--To be confirmed). |

Reliability

| | |
|--|--|
| RoHS compliant, CE and FCC certified, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock,temperature shock, rain, salt mist, dust, fungus, solar radiation etc.). | |
| Protection Level: | IP67 (front panel) |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -50°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP65 rated sealed & ruggedized silicone matrix function keypad, with carbon-on-gold key switch technology with key stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, matrix output without electronics controller, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, industrial white backlight included, top panel mounted solution. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M103KP-16-AC-BL

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 16 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.40KG |
| Dimension: | 103.0mm x 96.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈100mA |
| Connect Interface: | Dot matrix |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP65 dynamic sealed & ruggedized silicone rubber industrial numeric keypad with integrated sealed and ruggedized IP68 dynamic washable 25.0mm optical trackball module with 800 DPI for fast and accurate cursor position, industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with panel mounting solution. Backlight optional. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M130-25-OTB-OEM

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 15+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.50KG |
| Dimension: | 130.0mm x 77.5mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M149KP-18-ML

Feature

IP65 dynamic rated sealed & ruggedized silicone rubber numeric keypad, with carbon-on-gold key switch technology with key stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, rugged stainless steel front plate with mounting studs for top panel mounting, USB or PS2 optional; Secondary keys and output can be achieved by pressing NumLock key. Built to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity. **MIL-STD-461G (EMC, EMI, EMS, ESD) optional.**

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 18 keys |
| Key Travel: | 1.40±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.45KG |
| Dimension: | 148.6mm x 179.1mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M160HP-KP-IL-SS

Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with a Force Sensing Resistor pointing device for fast and accurate cursor position, with integrated numeric keypad, industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, 3 mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, CLEAN key for easy cleaning without needing to take the keyboard from PC, with stainless steel housing protects the electronics controller, with mounting holes for rear panel mounting. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 19+6 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 160.0mm x 125.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M183-FN-ML

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard with individual electronics controller included, 12 function keys on top line for easy operation, military grade PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, rear panel mount without any cover on back side with mounting holes, adjustable industrial backlight for optional, with USB/PS2 interface, wide temperature of -40 to +75 °C. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 69 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.50KG |
| Dimension: | 182.5mm x 93.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M183-FN-BL-ML

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard with 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise or mistyping, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, rear panel mount solution with mounting holes. Adjustable military white backlight included. The whole keyboard is designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|-------------------------|
| Keys: | 69 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.50KG |
| Dimension: | 182.5mm x 93.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M222-FN-ML-OEM

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard, 10 function keys on top line for easy operation, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted version, adjustable backlight optional, Military Level. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 81 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.45KG |
| Dimension: | 222.0mm x 100.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-TPT-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard with built-in military grade PCB, with a small blue trackpoint, it can accurately sense the pressure direction and pressure changes of the finger, thereby accurately controlling the movement direction and speed of the X and Y directions. It is light and sensitive to the touch. 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged metal back plate for better shielding function and positioning of the rugged cable outlet. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 270.0mm x 113.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-FN-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 270.0mm x 113.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet, adjustable white backlight included. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 270.0mm x 113.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-FN-BL-ML+TP80-DML+2KEY

Feature

IP65 dynamic sealed & durable embedded military silicone rubber keyboard with rugged touchpad module and 2 mouse keys integrated, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, panel mount with super thin ruggedized aluminum back plate with mounting holes, adjustable industrial white backlight included. **FN + End** button to control keyboard backlight and **FN + ↑** or **↓** button to adjust backlight brightness. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.). Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.65KG |
| Dimension: | 270.0mm x 113.0mm(L x W); Touchpad: 81.0mm x 50.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-FN-BL-ML-OEM+TP65+2KEY

Feature

IP65 dynamic sealed & durable embedded military silicone rubber keyboard with sealed & rugged waterproof touchpad and 2 mouse keys integrated, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, panel mount with super thin ruggedized aluminum back plate with mounting holes, adjustable industrial white backlight included. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.). Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.65KG |
| Dimension: | 275.6mm x 118.6mm(L x W); Touchpad: 66.0mm x 65.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M270-FN-BL-ML-OEM

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard with military electronics PCB included, 12 function keys on top line for easy operation, military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, panel mounted version, adjustable backlight included, Military Level. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 83 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.65KG |
| Dimension: | 270.0mm x 113.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M270-FN-BL-IL-OEM

-20°C to +60°C optional



K-TEK-M270-FN-ML-OEM

Non-backlight version



K-TEK-M270-FN-IL-OEM

Non-backlight version and
-20°C to +60°C optional



K-TEK-M270-FN-BL-ML-SS

With rugged stainless
steel back plate optional



Part Number: K-TEK-M270-FN-BL-ML-M73TP

Feature

IP65 dynamic sealed & ruggedized silicone rubber keyboard with sealed rugged touchpad and 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard, panel mount with super thin ruggedized aluminum back plate with mounting holes, adjustable white backlight included. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.65KG |
| Dimension: | Keyboard:270.0mm x 113.0mm(L x W); Touchpad:73.0mm x 76.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M275-OTB-FN-OEM

Feature

IP65 dynamic sealed & ruggedized silicone rubber industrial keyboard with full keyboard functionalities with IP68 dynamic washable 16.0mm optical trackball module with 800 DPI for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on the top line for easy operation, with industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 89+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 222.0mm x 100.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈100mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M275TP-FN-BL-IL-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber Hygienic industrial keyboard with full keyboard functionalities with sealed & ruggedized tough touchpad for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation, with industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning, industrial PCB sealed and ruggedized with top rubber for top panel mounting, industrial level with adjustable backlight included. With optional stainless steel back plate sealed and ruggedized with top industrial silicone cover & industrial PCB for ruggedized structure, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 275.0mm x 169.6mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M275TP-FN-BL-IL-DT

Mountable inclined desk top with VESA mounting holes version optional



K-TEK-M275TP-FN-BL-IL-FDT

Mountable flat desk top with VESA mounting holes version optional



K-TEK-M275TP-FN-IL-OEM

Non-backlight version



K-TEK-M275TP-FN-BL-IL-SS

With rugged stainless steel back plate optional



Part Number: K-TEK-M275TP-FN-BL-ML-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber Hygienic keyboard with sealed & ruggedized tough touchpad for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation, with gold finish PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning, top panel mounting, with adjustable red backlight included. With optional stainless steel back plate sealed and ruggedized with top silicone cover & gold finish PCB for ruggedized structure and easy mounting and sealing, stainless steel housing protects the electronics controller. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 275.0mm x 169.6mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M275TP-FN-BL-ML-DT

Mountable inclined desk top with VESA mounting holes version optional



K-TEK-M275TP-FN-BL-ML-FDT

Mountable flat desk top with VESA mounting holes version optional



K-TEK-M275TP-FN-ML-OEM

Non-backlight version



K-TEK-M275TP-FN-BL-ML-SS

With rugged stainless steel back plate optional



Part Number: K-TEK-M276TP-FN-BL-ML-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with full keyboard functionalities with sealed and ruggedized tough touchpad for fast and accurate cursor position, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning without taking the keyboard from PC, top panel mounted. Adjustable industrial backlight included, military level. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 281.0mm x 152.5mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M276TP-FN-BL-ML-FDT

Mountable super flat desk top version optional



K-TEK-M276TP-FN-BL-ML-SS

Customized back plate with red backlight



K-TEK-M276TP-FN-BL-ML-SS

With rugged stainless steel back plate optional



Part Number: K-TEK-M284TP-FP-FN-BL

Feature

IP65 dynamic water proof sealed & ruggedized silicone rubber keyboard with full keyboard functionalities with sealed & rugged tough touchpad (with fingerprint reader function) for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on the top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable the entire keyboard, avoid mis-operation during cleaning process, adjustable backlight included, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 90+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 284.8mm x 179.5mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M284TP-FP-FN-BL

Back view



K-TEK-M284TP-FP-FN-BL-FDT

Mountable super flat desk top version optional



K-TEK-M284TP-FN-BL

Without fingerprint reader function optional



K-TEK-M284TP-FN-BL-FDT

Mountable flat desk top version and without fingerprint reader function optional



Part Number: K-TEK-M275TP-FN-BL-ML-SS-V02

Feature

IP65 dynamic sealed and ruggedized silicone rubber Hygienic keyboard with full keyboard functionalities with sealed & ruggedized tough touchpad for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation. Military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning without needing to take away the keyboard from PC, gold finish PCB with stainless steel back plate sealed and ruggedized with top industrial silicone cover & PCB for ruggedized structure and easy mounting and sealing, stainless steel housing protects the electronics controller, with adjustable backlight included. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD** (optional), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.50KG |
| Dimension: | 283.0mm x 177.7mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA when backlight is off, 300mA with backlight on |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M275-FN-BL-ML-UT-OEM

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard with carbon-on-gold PCB electronics controller module included, 12 function keys (F1, F2...F11, F12) on top line for easy operation, carbon-on-gold key switch with stroke (1.20mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard, panel mounted version, military level with adjustable backlight included. With optional stainless steel back plate sealed and ruggedized with top silicone cover & gold finish PCB for ruggedized structure and easy mounting and sealing, stainless steel housing protects the electronics controller. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD** (optional), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 88 keys |
| Key Travel: | 1.20±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 275.0mm x 104.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M280-OTB-FN-ML-BT-DWP

Feature

IP65 dynamic sealed & ruggedized silicone rubber keyboard, integrated with a IP68 washable 25mm silver resin optical trackball(stainless steel ball optional) with +800DPI resolution for fast cursor moving and 3 mouse buttons for right/left clicking as well as middle key for scrolling up and down with ball rolling. (F1, F2...F8, F9) are on top line for easy operation, F11 and F12 shall be operated with 2 nd Key as second key values, industrial PCB with carbon-on-gold key switch technology with 1.50mm key stroke with extremely good tactile feeling for fast and antimicrobial keyboard surface treatment to withstand most chemicals and liquids under harsh environment, top panel mounted solution with threaded bolts, with black titanium electroplated front stainless steel plate to be scratch proof and withstand salt spray, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 69+3 keys |
| Key Travel: | 1.50±0.20mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.20KG |
| Dimension: | 280.0mm x 135.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈100mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTRR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M281TP-FN-BL-ML-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with full keyboard functionalities with sealed & ruggedized tough touchpad for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation, with gold finnish PCB with carbon-on-gold key switch technology with long stroke (1.50mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment. FN + Emergency combination key for easy cleaning via lock/disable the entire keyboard, avoid mis-operation during cleaning process, top panel mount solution. BACKLIGHT ON/OFF button to control keyboard turn on/off backlight, adjustable white backlight included. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.),and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 91+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 281.0mm x 177.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTRR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP65 dynamic waterproof industrial silicone rubber keyboard, with carbon-on-gold key switch 12 FN keys (F1, F2...F11, F12) on top line for easy operation, industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, top panel mounting solution, with industrial white backlight included. Military level optional. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M284-FN-BL-IL-OEM

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 89 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.45KG |
| Dimension: | 284.0mm x 109.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M284-AC-FN-BL-IL-OEM

Dot matrix interface optional



K-TEK-M284-FN-IL-OEM

Non-backlight version



K-TEK-M284-FN-BL-IL-OEM

White backlight



Part Number: K-TEK-M286-TPT-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard with built-in military grade PCB, with a small blue Trackpoint, it can accurately sense the pressure direction and pressure changes of the finger, thereby accurately control the movement direction and speed of the X and Y directions, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged metal back plate for better shielding function and positioning of the rugged cable outlet. Adjustable white backlight included. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--|
| Keys: | 90 keys (including left and right mouse buttons) |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 286.0mm x 113.0mm (Front panel) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 dynamic (front panel) |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M293-131-FN-BL-ML-DT-SS

Feature

IP68 dynamic sealed & ruggedized silicone rubber military keyboard with military electronics PCB included, 12 function keys on top line for easy operation, military PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, movable stand alone desk version with sealed stainless steel housing, with adjustable backlight included. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------|
| Keys: | 87 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.50KG |
| Dimension: | 293.0mm x 131.0mm (Front panel) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M302-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, key size of 15.0mm*14.5mm for easy operation without mis-typing, also ideal for users who wear gloves, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable the whole keyboard without needing to take away the keyboard from PC, rear panel mounted solution and adjustable white backlight included, with a reinforced and rugged metal back plate for better shielding function and positioning of the rugged cable outlet. Built to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, fungus etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 302.0mm x 121.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M306HP-FN-BL-ML-DT

Feature

IP68 dynamic sealed and ruggedized silicone rubber military keyboard with a Force Sensing Resistor pointing device for fast and accurate cursor position, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key to lock/disable the keyboard for easy cleaning without needing to take away the keyboard from PC, standard alone movable desk top version with fully stainless steel metal housing, with red backlight included. Military level. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------------|
| Keys: | 83+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.80KG |
| Dimension: | 306.6mm x 182.0mm x 21.5mm(L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M315KP-FN-BL-ML+M73TP

Feature

IP65 dynamic sealed & ruggedized silicone rubber keyboard with sealed tough touchpad with 400DPI resolutions for accurate and fast cursor position, with numeric keypad on the right side of keyboard and 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard, panel mount with super thin ruggedized aluminum back plate with mounting holes, adjustable industrial white backlight included. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--|
| Keys: | 102+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.70KG |
| Dimension: | Keyboard:315.0mm x 108.0mm(L x W); Touchpad:73.0mm x 76.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

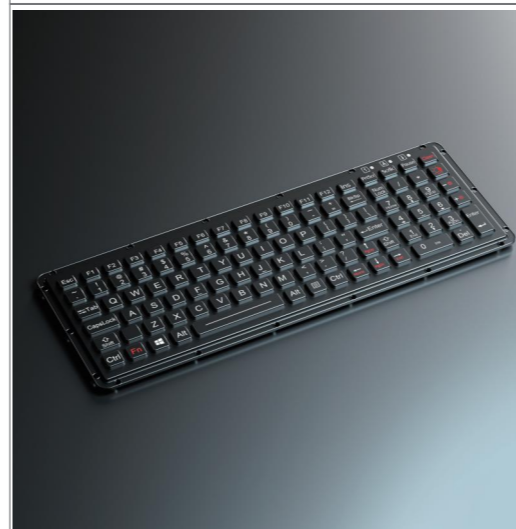
Part Number

Remark



K-TEK-M315KP-FN-BL-ML

Without touchpad optional



K-TEK-M315KP-FN-ML

Without backlight optional



K-TEK-M315TP-FN-BL-ML

Integrated touchpad optional



Part Number: K-TEK-M315KP-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, with numeric keypad on the right side of keyboard and 12 function keys on top line for easy operation, with carbon-on-gold keyswitch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet. Adjustable white backlight included. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), **MIL-STD-461G-EMC-EMI-EMS-ESD optional**, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|----------------------------|
| Keys: | 102 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 315.0mm x 108.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M315KP-FN-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|----------------------------|
| Keys: | 102 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 270.0mm x 113.0mm (L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M315TP-FN-BL-ML

Feature

IP65 dynamic sealed & durable embedded military silicone rubber keyboard integrated with sealed tough touchpad for fast cursor position, with built-in military grade PCB, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, panel mount with super thin ruggedized aluminum back plate with mounting holes, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet, adjustable white backlight included. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.). Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|----------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.60KG |
| Dimension: | 315.0mm x 108.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M317TP-KP-AC-FN-BL-UT-ML-OEM

Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with matrix FPC flex cable, with carbon-on-gold key switch technology with key stroke (1.20mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, top panel mounted with top ruggedized industrial silicone cover & military matrix PCB for ruggedized structure and easy mounting and sealing, adjustable white backlight included, Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|-----------------------------|
| Keys: | 108+2 keys |
| Key Travel: | 1.20±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈0.82KG |
| Dimension: | 317.00mm x 170.00mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | Dot matrix |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP68 dynamic sealed and ruggedized silicone rubber industrial keyboard with 12 FN keys (F1 ,F2 ...F11 , F12)are on top line for easy operation ,with carbon-on-gold key switch technology with long stroke (1.50mm)with extremely good tactile feeling for fast and accurate data input without any noise ,with durable coating &antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment ,**FN +CLEAN** combination key to lock/disable the keyboard for easy cleaning without needing to take away the keyboard from PC,standard alone inclined movable desk top version with fully stainless steel metal housing,with adjustable red backlight included.

Part Number: K-TEK-M337-176-FN-BL-IL-DT-SS

Mechanical Data

| | |
|------------------|---|
| Keys: | 83 keys |
| Key Travel: | 1.20±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.2N±0.2N |
| Gross Weight: | ≈1.50KG |
| Dimension: | 336.6mm x 176.3mm x (39.6-24.3)mm (L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | Dot matrix |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP68 dynamic sealed & ruggedized industrial silicone rubber industrial keyboard with full keyboard functionalities,IP68 dynamic rated 16.0mm optical trackball module with 800 DPI resolutions for fast and accurate cursor position, 12 function keys and industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm±0.1mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** key for easy cleaning via locking/ disable the entire keyboard without needing to take the keyboard from PCB, movable stand alone desk top version with IP68 dynamic washable sealed aluminum metal housing with sand blasting & oxygenation surface treatment, adjustable industrial backlight included, Designed to meet with **MIL-STD-810H**(high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M368-OTB-FN-BL-DT

Mechanical Data

| | |
|------------------|--|
| Keys: | 83+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.00KG |
| Dimension: | 368.0mm x 142.9mm x (18.0mm-31.0mm)(L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M366-OTB-KP-FN-BL-DT

Feature

IP68 dynamic waterproof sealed & ruggedized silicone rubber Hygienic keyboard with full keyboard functionalities, sealed & ruggedized IP68 dynamic 25.0mm optical trackball module with 800 DPI resolutions for fast and accurate cursor position, integrated numeric keypad and 12 FN keys (F1, F2...F11, F12), with carbon-on-gold key switch technology with key stroke (1.50mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning without disconnecting the keyboard and computer, mountable desk top version with robust polycarbonate case with VESA and AMPS mounting holes on the backside. Adjustable white backlight included to fit for dim or dark environment. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------------|
| Keys: | 111 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.20KG |
| Dimension: | 369.6mm x 139.8mm x 19.6mm(L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark

| | | |
|---|-----------------------------|--|
|  | K-TEK-M366-OTB-KP-FN-BL-OEM | Top panel mount version optional |
|  | K-TEK-M366KP-FN-BL-DT | Without trackball optional |
|  | K-TEK-M366TP-KP-FN-BL-DT | Integrated touchpad optional |
|  | K-TEK-M366TP-KP-FN-BL-OEM | Top panel mount with touchpad optional |



Feature

IP65 dynamic waterproof sealed & ruggedized industrial silicone rubber Hygienic keyboard with full keyboard functionalities, with sealed & ruggedized tough touchpad for fast and accurate cursor position, integrated numeric keypad and 12 FN keys (F1, F2...F11, F12), with carbon-on-gold key switch technology with key stroke (1.50mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning without disconnecting the keyboard and computer, top panel mounted solution with rugged stainless steel back plate with mounting studs to protect the electronics. Adjustable industrial white backlight included to fit for dim or dark environment. Designed to meet **MIL-STD-810H** (high and low wide working temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand and dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M366TP-KP-FN-BL-SS

Mechanical Data

| | |
|------------------|-------------------------------|
| Keys: | 108+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.25KG |
| Dimension: | 366.0mm x 136.0mm (L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +80°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP68 dynamic sealed & ruggedized industrial silicone rubber Hygienic keyboard, integrated sealed numeric keypad, function keys and industrial PCB with carbon-on-gold key switch technology with 1.50mm key stroke with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN+ CLEAN** key for easy cleaning via locking/disable the whole keyboard without needing to take away the keyboard from PC, movable stand alone desk top version, adjustable industrial backlight optional. Designed to meet with **MIL-STD-810H**(high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M375KP-FN-DT

Mechanical Data

| | |
|------------------|--------------------------------------|
| Keys: | 106 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.30KG |
| Dimension: | 379.0mm x 140.0mm x15.5mm(L x W x H) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M376KP-FN-DT-AL

Feature

IP68 dynamic sealed & ruggedized industrial silicone rubber industrial keyboard, integrated numeric keypad, 24 function keys (F1, F2...F11, F12...F23, F24) and industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN+CLEAN** key for easy cleaning via locking/disable the entire keyboard, movable stand alone desk top version with IP68 dynamic washable sealed aluminum metal housing with sand blasting & oxygenation surface treatment, adjustable industrial backlight optional. Designed to meet with **MIL-STD-810H**(high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------------|
| Keys: | 116 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.00KG |
| Dimension: | 376.0mm x 170.0mm x 19.5mm(L x W x H) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA |
| Connect Interface: | USB/PS2 optional |
| | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M376KP-FN-DT-SS

Movable desk top version with stainless steel housing optional



K-TEK-M376KP-FN-DT-SS-FM

Desk top version with stainless steel mounting plate and holes on both sides optional



K-TEK-M376KP-FN-OEM

Rear panel mounted solution



Part Number: K-TEK-M378KP-FN-BL-ML-OEM

Feature

IP65 sealed & ruggedized military silicone rubber keyboard, integrated with numeric keypad, 24 function keys (F1, F2... F11, F12...F23, F24) and military level PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN+ CLEAN** key for easy cleaning via locking/disable the whole keyboard without needing to take away the keyboard from PC, panel mounted solution. Red standard color adjustable backlight included, Military level with wide temperature for your easy operation under -40° to +75°. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 118 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.60KG |
| Dimension: | 378.0mm x 153.8mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M379-OTB-KP-FN-BL-DT-FM

Feature

IP68 dynamic sealed & ruggedized silicone rubber industrial keyboard, integrated numeric keypad, 24 function keys (F1, F2 ...F11, F12...F23, F24) on the top line for easy operation, IP68 dynamic rated 25.0mm optical trackball module with 800 DPI resolutions for fast and accurate cursor position with extremely smooth operation, industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface treatment withstand to most chemicals and liquids under harsh environment, **FN+ CLEAN** combination key for easy cleaning via locking/disable the entire keyboard without needing to take away the keyboard from PC, top panel mountable desk top version with IP68 dynamic sealed stainless steel metal housing with brushed surface treatment, with stainless steel mounting plate on both sides for panel mounting optional, adjustable industrial backlight included. Military level optional.

Mechanical Data

| | |
|------------------|--|
| Keys: | 118+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.00KG |
| Dimension: | 400.8mm x 196.4mm x 31.0mm (L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M379-OTB-KP-FN-BL-ML-OEM

Feature

IP65 dynamic rated ruggedized silicone rubber Hygienic keyboard with full keyboard functionalities, integrated numeric keypad and 24 FN keys (F1, F2...F11, F12...F23, F24), sealed & ruggedized IP68 dynamic 25.0mm optical trackball module with 800 DPI resolution for fast and accurate cursor position, PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard, top panel mounted solution with exposed PCBA without any cover and sealed along the edge by glue/adhesive, adjustable backlight included, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 118+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.00KG |
| Dimension: | 379.0mm x 169.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M379-OTB-KP-FN-IL

Non-backlight version



K-TEK-M379-OTB-KP-FN-BL-IL-OEM

-20°C to +60°C optional



K-TEK-M379-OTB-KP-FN-BL-IL-SS

With rugged stainless steel back plate optional



K-TEK-M379-OTB-KP-FN-BL-DT-FM

With rugged stainless steel metal housing optional



Part Number: K-TEK-M379TP-KP-FN-BL-ML-OEM

Feature

IP65 dynamic rated & ruggedized silicone rubber military keyboard with full keyboard functionalities, integrated numeric keypad and 24 FN keys (F1, F2...F11, F12...F23, F24) on upper line, sealed & ruggedized tough touchpad for fast and accurate input, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN+ CLEAN** combination key for easy cleaning via locking/disable the entire keyboard without needing to take away the keyboard from PC, top panel mounted solution with exposed PCBA without any cover and sealed along the edge by glue/adhesive, adjustable red backlight Included, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 118+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.80KG |
| Dimension: | 379.0mm x 169.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M379TP-KP-FN-ML-OEM

Non-backlight version



K-TEK-M379TP-KP-FN-BL-IL-OEM

-20°C to +60°C optional



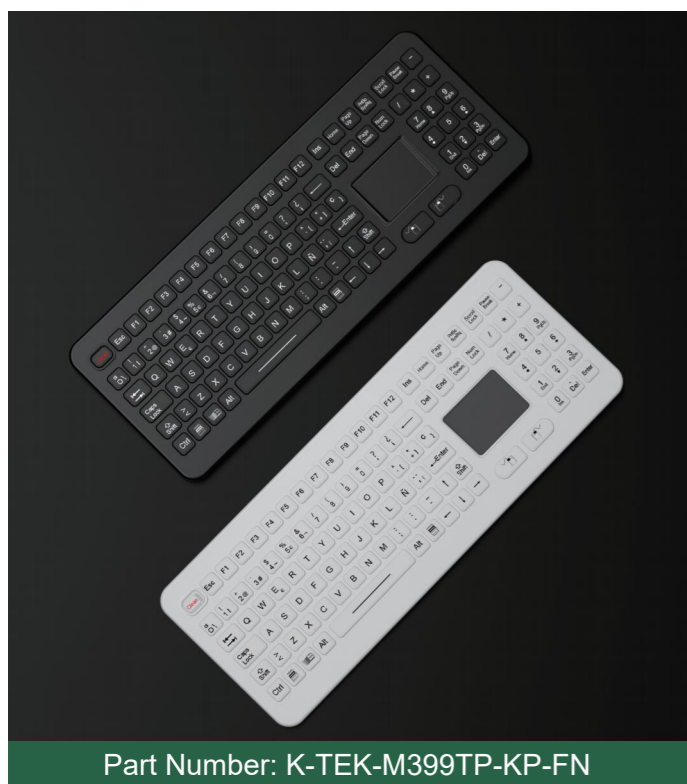
K-TEK-M379TP-KP-FN-BL-ML-SS

With rugged stainless steel back plate optional



K-TEK-M379TP-KP-FN-DT

Rugged stainless steel housing for desktop solution



Part Number: K-TEK-M399TP-KP-FN

Feature

IP65 dynamic rated ruggedized industrial silicone rubber Hygienic keyboard with full keyboard functionalities with FN (F1, F2...F11, F12) on upper line, integrated numeric keypad, sealed & ruggedized tough touchpad for fast and accurate cursor position, industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, Clean key for easy cleaning via lock/disable the keyboard, top panel mounted with 3.0mm oxygenation surface treatment aluminum back plate sealed with top ruggedized industrial silicone cover & Industrial carbon-on-gold PCB, adjustable industrial backlight optional. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 107+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.30KG |
| Dimension: | 405.0mm x 155.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M399KP-FN

Without touchpad optional



K-TEK-M396-OTB-KP-FN-DT

Integrated trackball optional



K-TEK-M399TP-KP-FN-BL-DT

Desktop version with red backlight optional



K-TEK- M396TP-KP-FN-DT

Inclined desktop with VESA mounting holes optional



Part Number: K-TEK-M386KP-FN-BL-ML

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, with built-in military grade PCB, with numeric keypad on the right side of keyboard and 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet. Adjustable white backlight included. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------|
| Keys: | 105 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈0.90KG |
| Dimension: | 386.0mm x 125.0mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB, PS2 available |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M386KP-FN-BL-ML+M127TP

Feature

IP65 dynamic sealed and durable embedded silicone rubber rugged keyboard, sealed and ruggedized touchpad with 2 mouse buttons for left/right clicking, with built-in military grade PCB, with numeric keypad on the right side of keyboard and 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key for easy cleaning via lock/disable whole keyboard without needing to take away the keyboard from PC, rear panel mounted, with a reinforced and rugged aluminum back plate for better shielding function and positioning of the rugged cable outlet. Adjustable white backlight included. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--|
| Keys: | 105 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.20KG |
| Dimension: | 386.0mm x 125.0mm (L x W) , Touchpad: 126.6mm x 99.6mm (L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +85°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M396KP-FN-DT

Feature

IP68 dynamic sealed and ruggedized industrial silicone rubber Hygienic keyboard, with integrated numeric keypad on right side, function keys on upper line, and industrial PCB with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, Clean key for easy cleaning via lock/disable the keyboard without needing to take away the keyboard from PC, mountable stand alone desk top version with robust polycarbonate case and VESA and AMPS mounting holes on the backside, adjustable industrial backlight optional.

Mechanical Data

| | |
|------------------|---|
| Keys: | 108 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.30KG |
| Dimension: | 405.0mm x 155.0mm x 22.1~36.8mm (L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M400TP-FN-BL-FDT

Feature

IP68 dynamic sealed and ruggedized silicone rubber industrial keyboard with full keyboard functionality with sealed & tough IP65 touch pad for fast and accurate cursor position, 12 FN keys (F1, F2...F11,F12) are on the top line for easy operations, with carbon-on-gold key switch technology with long stroke (1.50mm) with extremely good tactile feeling for fast and accurate data input without any noise,, **FN+ CLEAN** can lock the whole keyboard for easily clean the keyboard. with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment. Aluminum housing electroplated with black titanium for full black color treatment to be scratch proof. With Adjustable industrial backlight(white backlight). Movable stand alone desk top version. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------------|
| Keys: | 87+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.00KG |
| Dimension: | 400.0mm x 150.0mm x 20.0mm(L x W x H) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP68 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP65 dynamic sealed and ruggedized silicone rubber keyboard with sealed & ruggedized tough touchpad, 12 FN keys (F1, F2...F11, F12) are on top line for easy operation, with carbon-on-gold key switch technology with long stroke (1.50mm±0.1mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN + CLEAN** combination key to lock/disable the keyboard for easy cleaning without needing to take away the keyboard from PC, with ruggedized stainless steel plate and surface covered with a black film, top panel mounted with threaded bolts, backlight optional. Military level, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M418TP-FN-BL-ML-OEM

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 83+2 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.80KG |
| Dimension: | 418.0mm x 154.2mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -40°C ~ +75°C |
| Storage Temperature: | -45°C ~ +80°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Feature

IP65 dynamic water proof vandal proof stainless steel industrial keyboard with silicone keys(white/grey color) for comfortable and quiet typing, with integrated IP65 static 38.0mm stainless steel mechanical trackball module in 400 DPI resolutions for fast and accurate cursor position(black hardened resin mechanical trackball module optional), 12 function keys (F1, F2...F11, F12) are on the top line for easy operation, with carbon-on-gold key switch technology with long stroke (1.40mm±0.10mm). High quality durable elegant grey spray-paint on the SUS304 front plate surface to withstand the corrosion from water/salt mist etc. 3 LEDs for CapsLock/Num Lock/Scroll Lock to indicate on/off, with brushed SUS304 stainless steel back plate and shielding boxes to protect electronics, **FN + CLEAN** keys to lock/disable the keyboard for easy cleaning, Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M405-38-MTB-60-FN-DWP

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 86+2 keys |
| Key Travel: | 1.40±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.6N±0.2N |
| Gross Weight: | ≈2.00KG |
| Dimension: | 405.0mm x 135.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M405TP-FN-DWP

Feature

IP65 dynamic water proof vandal proof stainless steel industrial keyboard with silicone keys(white or grey color) for comfortable and quiet typing, and 12 function keys (F1, F2...F11, F12) are on the top line for easy operation, sealed and ruggedized industrial PCB with carbon-on-gold key switch technology with long stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, High quality durable elegant grey spray-paint on the SUS304 front plate surface to withstand the corrosion from water/salt mist. 3 LEDs for CapsLock/Num Lock/Scroll Lock to indicate on/off, with brushed SUS304 stainless steel back plate and shielding boxes to protect electronics, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning, which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 86+2 keys |
| Key Travel: | 1.40±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.6N±0.2N |
| Gross Weight: | ≈1.70KG |
| Dimension: | 405.0mm x 135.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M305-FN-DWP

Feature

IP65 dynamic water proof vandal proof stainless steel industrial keyboard with silicone keys (white or grey color) for comfortable and quiet typing and 12 function keys (F1, F2, ...F12) are on the top line for easy operation, sealed and ruggedized industrial PCB with carbon-on-gold key switch technology with long stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, one complete silicone rubber along stainless steel plate for easy mounting & sealing tightly with cabinet. Top panel with threaded bolts for top panel mounted solution, High quality durable elegant grey spray-paint on the SUS304 front plate surface to withstand the corrosion from water/salt mist. 3 LEDs for Caps Lock/Num Lock/Scroll Lock to indicate on/off, with brushed SUS304 stainless steel back plate and shielding boxes to protect electronics, **FN + CLEAN** key to lock/disable the keyboard for easy cleaning without taking away the keyboard from PC, which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity; **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.

Mechanical Data

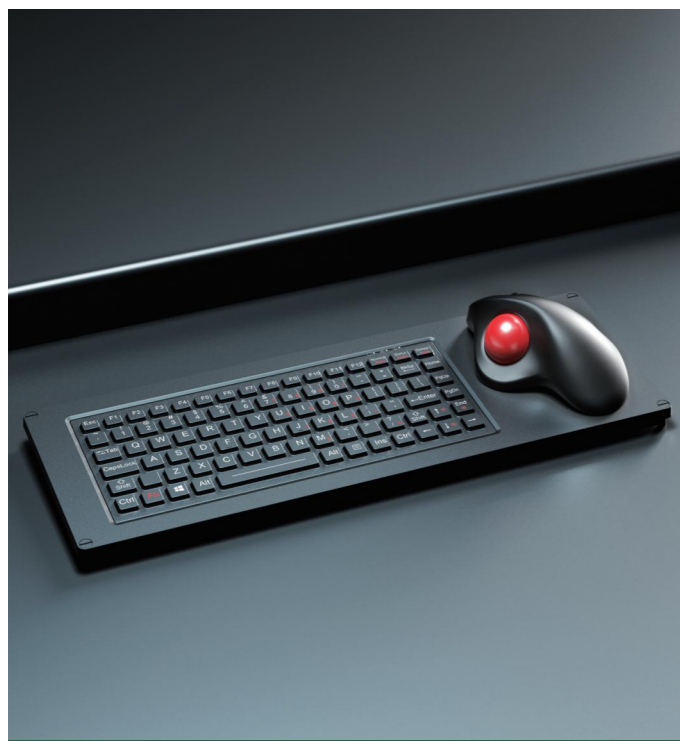
| | |
|------------------|--------------------------|
| Keys: | 86 keys |
| Key Travel: | 1.40±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.6N±0.2N |
| Gross Weight: | ≈1.30KG |
| Dimension: | 305.0mm x 135.0mm(L x W) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M425-OTB-FN-BL

Feature

IP65 dynamic sealed & ruggedized silicone rubber keyboard, 12 FN function keys (F1, F2...F11, F12) on the top line for easy operation, integrated with a conventional mouse with middle wheel, left/right buttons as well as one IPX6 rating 34mm optical trackball mouse at 500~1000 DPI resolution for fast cursor moving, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, **FN+CLEAN** combination key for easy cleaning via locking/disable the entire keyboard, CNC aluminum housing electroplated with black titanium for full black color treatment to be scratch proof, Adjustable white backlight included. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.50KG |
| Dimension: | 425.0mm x 150.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |

Optional Configuration

Part Number

Remark



K-TEK-M425-172-38-MTB-AVR-FN-BL-BT

With 38mm removable & anti-vibration mechanical trackball black titanium electroplated stainless steel plate



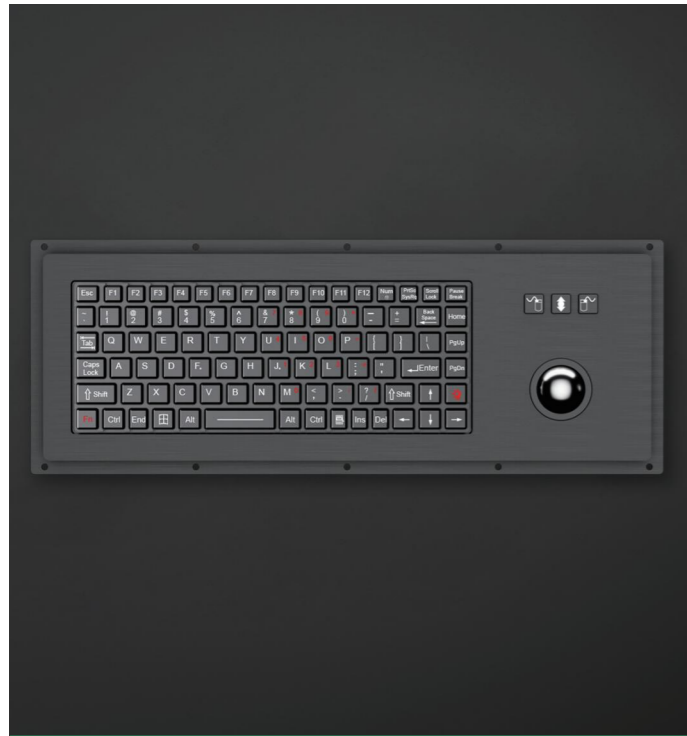
K-TEK-M425-172-38-MTB-FN-BL-BT

With 38mm mechanical trackball, black titanium electroplated stainless steel plate



K-TEK-M425-OTB-FN-BL-ML-BT

With 34mm optical thumb ball, black titanium electroplated stainless steel plate



Part Number: K-TEK-M425-172-38-MTB-FN-BL-BT

Feature

IP65 dynamic sealed & ruggedized silicone rubber industrial keyboard, 12 FN function keys (F1, F2...F11, F12) on the top line for easy operation, integrated with a conventional mouse with middle wheel, left/right buttons as well as one IPX6 rating 34mm optical trackball mouse at 500~1000 DPI resolution for fast cursor moving, industrial PCB with carbon-on-gold key switch technology with 1.50mm key stroke with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface treatment to withstand most chemicals and liquids under harsh environment, **FN+ CLEAN** combination key for easy cleaning via locking/disable the entire keyboard without needing to take away the keyboard from PC, high quality durable black titanium electroplated on the top stainless steel plate and back housing, with sinking holes for panel mount to user's device. Adjustable industrial white backlight included, which designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------|
| Keys: | 89+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.50KG |
| Dimension: | 425.0mm x 172.0mm (Front Panel) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈30mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | PS2, USB or aviation plug available |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M425-172-38-MTB-AVR-FN-BL-BT

Feature

IP65 dynamic sealed & ruggedized silicone rubber military keyboard, 12 FN function keys (F1, F2 ...F11, F12) on the top line for easy operation, integrated with removable IP65 rating 38.0mm black resin mechanical trackball module at 400DPI resolutions for fast cursor moving, military PCB with carbon-on-gold key switch technology with 1.50mm key stroke with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface treatment to withstand most chemicals and liquids under harsh environment, high quality durable black titanium electroplated on the top stainless steel plate, rear panel mount with mounting holes to user's device. Adjustable industrial white backlight included. Designed to meet **MIL-STD-810 H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------|
| Keys: | 89+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N (pressure point) |
| Gross Weight: | ≈2.50KG |
| Dimension: | 425.0mm x 172.0mm (Front Panel) |

Electrical Data

| | |
|--------------------|---|
| Supply Voltage: | DC +5V±5% |
| Working Current: | 30mA when backlight is off, 300mA with backlight on |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M425-OTB-FN-BL-ML-BT

Feature

IP65 dynamic sealed & ruggedized silicone rubber industrial keyboard, 12 FN function keys (F1, F2...F11, F12) on the top line for easy operation, integrated with a conventional mouse with middle wheel, left/right buttons as well as one IPX6 rating 34mm optical trackball mouse at 500~1000 DPI resolution for fast cursor moving, industrial PCB with carbon-on-gold key switch technology with 1.50mm key stroke with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & antimicrobial keyboard surface treatment to withstand most chemicals and liquids under harsh environment, **FN+ CLEAN** combination key for easy cleaning via locking/disable the entire keyboard without needing to take away the keyboard from PC, high quality durable black titanium electroplated on the top stainless steel plate and back housing, with sinking holes for panel mount to user's device. Adjustable industrial white backlight included, which designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|---------------------------------|
| Keys: | 87+3 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈2.50KG |
| Dimension: | 425.0mm x 150.0mm (Front Panel) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | PS2, USB or aviation plug available |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |



Part Number: K-TEK-M464-DTP-DHP-FN-BL

Feature

IP65 dynamic sealed & ruggedized silicone rubber keyboard, with sealed and tough touch pad and Force Sensing Resistor pointing device for fast and accurate cursor position, 12 function keys on top line for easy operation, with carbon-on-gold key switch technology with key stroke (1.50±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, **FN+ CLEAN** combination key to lock/disable the whole keyboard for easy cleaning without disconnecting the keyboard from computer, adjustable white backlight included. Designed to meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and **MIL-STD-461G-EMC-EMI-EMS-ESD (optional)**, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

| | |
|------------------|--------------------------|
| Keys: | 87+4 keys |
| Key Travel: | 1.50±0.10mm |
| Key Lifespan: | >5 million actuations |
| Actuation Force: | 1.5N±0.2N |
| Gross Weight: | ≈1.62KG |
| Dimension: | 464.0mm x 182.0mm(L x W) |

Electrical Data

| | |
|--------------------|--|
| Supply Voltage: | DC +5V±5% |
| Working Current: | ≈50mA(with backlight off); ≈300mA(with backlight on) |
| Connect Interface: | USB/PS2 optional |
| OS: | All Windows, Mac OSX, Vxworks, Android, Linux, Unix |

Reliability

| | |
|--|--|
| CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) | |
| Protection Level: | IP65 |
| MTBF: | >20000H |
| MTTR: | <30min |
| Operating Temperature: | -20°C ~ +60°C |
| Storage Temperature: | -30°C ~ +70°C |
| APPLICATION: | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc. |