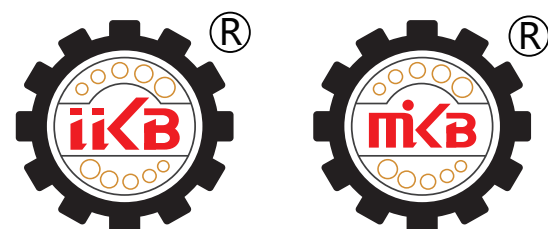


深圳市键特电子有限公司
东莞市键特电子有限公司
KEY TECHNOLOGY (CHINA) LIMITED



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KEY TECHNOLOGY (CHINA) LIMITED

RUGGED KEYBOARD AND MOUSE CATALOGUE

Rugged Keyboards and Mice Expert



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Dongshen Road, Fenggang Town, DongGuan City, Guang Dong Province, P.R. China. Zip Code: 523703
Beijing Office Add: 1205, Floor 12, Building 7, No. 26 Chengtong Street, Shijingshan District, Beijing,
P.R. China. Zip Code: 100043

★ Feature and Reliability ★

EMC SPEC	MIL-STD-461G (EMC, EMI, EMS, ESD)
01	CE101 25Hz - 10kHz Conducted Emissions, Audio Frequency Currents, Power leads
02	CE102 10kHz -10MHz Conducted Emissions, Radio Frequency Potentials, Power leads
03	CS101 25Hz - 150kHz Conducted Susceptibility, Power Leads
04	CS106 Conducted Susceptibility, Transients, Power Leads
05	CS112 Electrostatic Discharge Susceptibility
06	CS114 4kHz -400MHz Conducted Susceptibility, Bulk Cable injection
07	CS115 Conducted Susceptibility, Bulk Cable injection, Impulse Excitation
08	CS116 10kHz - 100MHz Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads
09	RE101 25Hz -100kHz Radiated Emissions, Magnetic Field
1 0	RE102 10kHz - 18GHz Radiated Emissions, Electric Field
1 1	RS101 25HZ - 100kHz Radiated Susceptibility, Magnetic Field
1 2	RS103 10kHz - 40GHz Radiated Susceptibility, Electric Field

Environmental Adaptability	MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, fungus etc.)
01	GJB150.2A-2009-Low Pressure
02	GJB150.3A-2009-High Temperature
03	GJB150.4A-2009-Low Temperature
04	GJB150.5A-2009-Temperture Shock
05	GJB150.8A-2009-Rain
06	GJB150.9A-2009-Humidity
07	GJB150.10A-2009-Fungus
08	GJB150.11A-2009-Salt Spray
09	GJB150.16A-2009-High Frequency Vibration
1 0	GJB150.16A-2009-Dust
1 1	GJB150.16A-2009-Low Frequency Vibration
1 2	GJB150.18A-2009-Shock
1 3	GJB150.18A-2009-Drop Test

Designed to meet the critical military standards in these 10 aspects:
Reliability, Safety, Maintainability, Testability, Supportability, Environmental adaptability, Stability, Compatibility, Consistency, And continuity.



Part Number: K-TEK-TP65-DWT-25KV

Mechanical Data

Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.16KG
Dimension:	65.0mm x 49.0mm(L x W)

Electrical Data

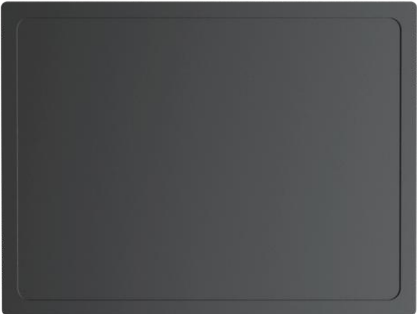
Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +55℃
Storage Temperature:	-30℃ ~ +70℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

Feature

K-TEK-TP65-DWT-25KV is a high performance humanize touchpad module, especially designed for ruggedized laptops, notebooks etc. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers. Complete mouse function is achieved via IIC/PS2 interface and USB interface with external electronic controller board, with left&right mouse buttons for option. **MIL-STD-461G-EMC-EMI-EMS-ESD optional**, and meet with **MIL-STD-810F** (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.



Feature

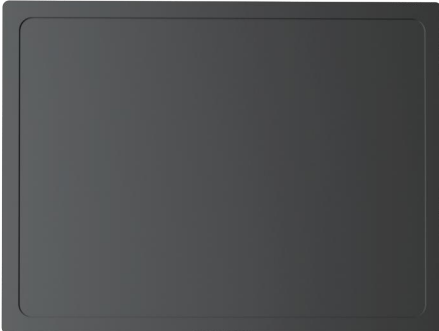
K-TEK-TP6549-USB+2KEY is a high performance humanize designed touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers. Function as complete computer mouse via USB interface. Plug-and-play. With multi-touch functionality optional in difference with conventional mouse. USB interface, with 2 external fully waterproof mouse buttons with micro key switch technology for comfortable tactile feeling. Meet **MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Part Number: K-TEK-TP6549-USB+2KEY

Mechanical Data	
Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	65.0mm x 49.0mm(L x W)

Electrical Data	
Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability	
CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +55℃
Storage Temperature:	-30℃ ~ +70℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Feature

K-TEK-TP65-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet **MIL-STD-810F** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and **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.

Part Number: K-TEK-TP65-DML-25KV+2KEY

Mechanical Data	
Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	66.0mm x 50.0mm(L x W)

Electrical Data	
Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability	
CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +60℃
Storage Temperature:	-45℃ ~ +75℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-TP80-DML-25KV+2KEY

Feature

K-TEK-TP80-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and 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

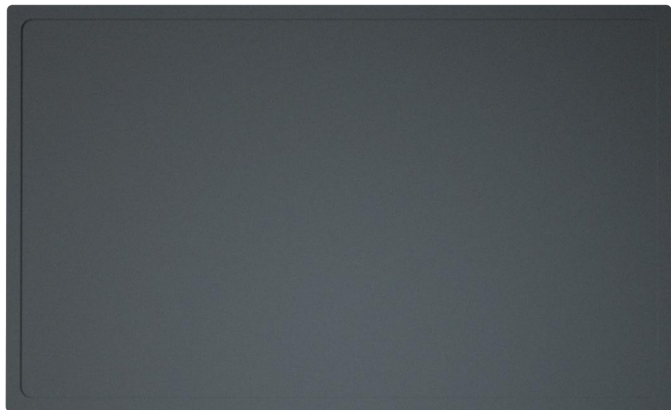
Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	81.0mm x 50.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +60℃
Storage Temperature:	-45℃ ~ +75℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-TP115-DML-25KV+2KEY

Feature

K-TEK-TP115-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and 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

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	116.0mm x 71.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +60℃
Storage Temperature:	-45℃ ~ +75℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M73TP-ML

Feature

P65 static sealed Touchpad with 2 mouse buttons under touchpad for left and right clicking with OMRON key switch technology with short stroke of 0.30±0.05 mm, the electronics controller module shielded and protected with one ultra thin aluminum backplate, with mounting holes along with the rear ABS plastic plate for rear panel mounting. Military level with wide temperature of -40℃ to +75℃, **MIL-STD-461G-EMC-EMC-EMS-ESD optional** and designed to meet with **MIL-STD-810F** (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.

Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	73.0mm x 76.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M90TP-ML

Feature

IP65 dynamic Sealed and Ruggedized Rubber Touchpad for fast and accurate cursor position, with 2 raised mouse buttons under touchpad, with mounting holes along the rear panel mounting plate for rear panel mounting. Military level with wide temperature of -40℃ to +75℃. **MIL-STD-461G-EMC-EMC-EMS-ESD optional**, designed to meet with **MIL-STD-810F** (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.

Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.40KG
Dimension:	90.0mm x 90.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M90TP-DHP-NV-151B

Feature

IP65 dynamic sealed and ruggedized silicone rubber military touchpad with a Force Sensing Resistor pointing device for fast and accurate cursor position, with military level PCB with carbon-on-gold key switch technology with 1.20mm key stroke for fast and accurate data input, 2 mouse buttons for right & left clicking and scrolling up and down, with mounting holes for rear panel mounting. Military level with strong anti-interference and low radiation ability. Designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F (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.

Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.40KG
Dimension:	90.0mm x 90.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M98TP-DWT-151B-25KV-DWP

Feature

IP65 dynamic sealed and stainless steel ruggedized tough touchpad with two high quality fully sealed resin mouse buttons, stainless steel front panel with threaded bolts for top panel mounting solution. 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. Working temperature(-40℃ to +75℃), meet MIL-STD-461G (EMC, EMI,EMS, ESD) and MIL-STD-810F (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

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	98.0mm x 88.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +80℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M110TP-DHP-NV-151B-DWP

Feature

IP65 dynamic waterproof Sealed and ruggedized tough touchpad for fast and accurate cursor position, with a Force Sensing Resistor pointing device under the touchpad, 2 mouse buttons designed for right & left clicking, with military grade PCB with carbon-on-gold key switch technology with 1.20mm key stroke. The electronics controller module is shielded and protected by stainless steel housing, high quality durable black titanium electroplated on the top stainless steel plate, with threaded bolts for top panel mounting solution and 4 x R5 angles to be smooth and scratch proof. Military level, designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810F (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.

Mechanical Data

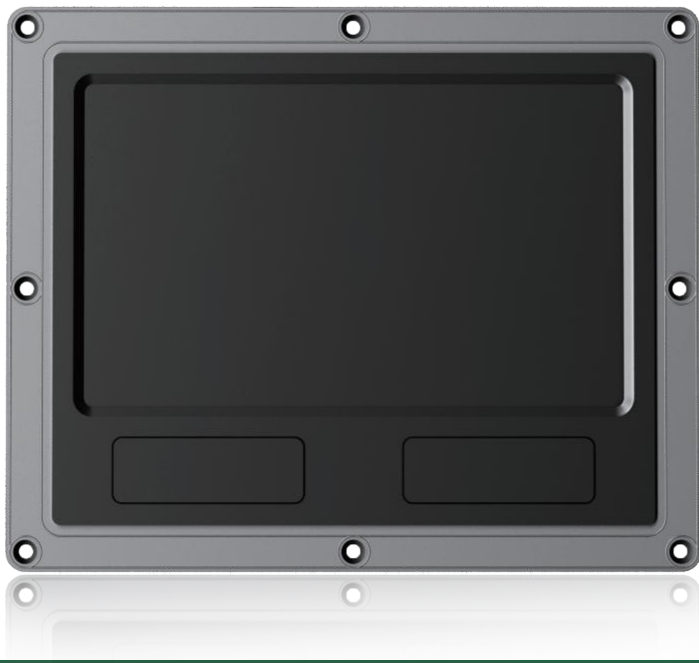
Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.60KG
Dimension:	110.0mm x 120.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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-M125TP-DML-25KV-DWP-OEM

Feature

IP65 dynamic sealed & ruggedized military high performance humanize capacitive touchpad. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Meet MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and 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

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	143.6mm x 116.6mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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 rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 2 mouse buttons for left and right clicking, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. Designed to meet with **MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810F** (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.

Part Number: K-TEK-M76-DHP-EMC-DWT

Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	78.5mm x 35.2mm x 8.6mm(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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

IP65 dynamic rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 3 mouse buttons for left and right clicking, middle wheel function, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. Designed to meet **MIL-STD-810F** (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-M76HP-3

Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	76.0mm x 32.6mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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 ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Feature

IP65 dynamic rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 2 mouse buttons for left and right clicking, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. USB interface. Designed to meet with **MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810F** (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.

Part Number: K-TEK-M76-DHP-EMC-DWT-2-H5.5

Mechanical Data

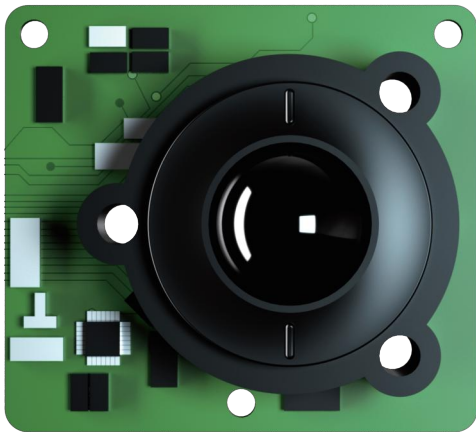
Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	78.5mm x 35.1mm x 12.3mm(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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

14.0mm IPX4 static rated waterproof MINI laser thumb ball module with 600 DPI resolutions for fast and accurate cursor movement. Built-in wide temperature military grade PCB, hardened resin ball with ABS plastic housing for panel mounted solution, with durable coating & antimicrobial surface, it can be used in harsh environments to well withstand bacteria, USB or PS2 interface. Meet **MIL-STD-810F** with high and low temperature, low pressure, humidity, vibration, shock, temperature shock, drop test etc, as well as designed to meet with critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-14-LTB

Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.10KG
Dimension:	41.0mm x 37.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX4
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-38-MTB-AVB-151B

Feature

38.0mm (1.5") vandal proof IP65 static mechanical black resin trackball module, with 400DPI resolutions, Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, 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.

Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.35KG
Dimension:	60.3mm x 60.3mm x 25.4mm(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-50-MTB-AVB-EMC-151B

Feature

50.0mm (2.0") vandal proof IP65 static mechanical trackball module, black harden resin ball with 400DPI resolutions,USB 2.0 interface, with rear panel mounted solution. Designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, 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. Military level, with strong anti-interference ability, and low radiation etc.

Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.50KG
Dimension:	60.3mm x 60.3mm x 25.4mm(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M134-38-MTB-AVB-151B

Feature

IPX6 rated Military trackball with 38.0mm (1.5") vandal proof mechanical black harden resin ball module with 400DPI resolutions, with 2 mouse buttons with OMRON key switch technology for right & left clicking, and middle wheel for scrolling up and down, high quality black titanium electroplated aluminum back plate to be scratch proof and anti-salt mist. Rear panel mounted solution with mounting holes. Interface aviation plug with model J14A -9ZJB. Designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, 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.

Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	134.0mm x 159.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
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-M58-OMS-NV-151B-DT-DWP

Feature

P68 dynamic rated sealed and rugged waterproof professional optical mouse, DPI can be adjusted and switched by mouse button, built-in wide temperature military grade PCB electronics controller, with extremely good tactile feeling for left and right mouse button, durable coating & antimicrobial surface to withstand most chemicals and liquids under harsh environments. The mouse is full sized and features a 4-buttons which are designed for right & left clicking and scrolling up and down just like a conventional non-waterproof mouse, as well as one key to adjust DPI; IP68 waterproof and dust proof rating, USB interface. Which meets **MIL-STD-461G (EMC, EMI, EMS, ESD)** and **MIL-STD-810F** (high and low temperature, low pressure, humidity, vibration, shock, temperature shock, drop test etc), as well as critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.25KG
Dimension:	110.0mm x 58.3mm x 37.4(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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-B68-OMS-DT-DWP

Feature

IP65 dynamic sealed & Ruggedized CNC aluminium alloy optical mouse with 2 mouse buttons withstand to harsh environments, such as rain, direct water, dirt, collision, especially for outdoor public application. The mouse button is designed for right & left clicking just like a conventional non-waterproof mouse, compatible with both USB and PS/2. Meet MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.8KG
Dimension:	125.6mm x 68.0mm x 38.0mm(L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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 ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-HC1U-360-V02

Feature

IP54 hall joystick provides the user with a 3-axis joystick function. It can control the output of X (left and right) and Y axis (front and rear) by moving the handle in any direction by (25 ° ± 2 °); and surely control the Z axis output by rotating (40 ° ± 3 °). Mouse function optional. With a button sits on top of the joystick, its function can be set to mouse left button or right button at the factory. USB 2.0 interface is available. Meet MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Mechanical Data

Joystick Lifespan:	>0.2 million actuations
Gross Weight:	≈0.3KG
Dimension:	48.5mm x 48.5mm x 115.0mm (L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP54
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



Feature

IP54 ruggedized joystick with stainless steel plate and 2 sealed stainless steel mouse buttons (optional) for right and left clicking, the whole electronic controllers protected and shielded by stainless steel housing. The joystick provides users with a 3-axis joystick function, and can control the output of X (left and right) and Y axis (front and rear) by moving the handle in any direction by ($25^{\circ} \pm 2^{\circ}$); and surely control the Z axis output by rotating ($40^{\circ} \pm 3^{\circ}$). Mouse function optional. With one button on the top of the joystick (2 buttons optional), it can be set as left mouse button or right button before ex-factory. USB interface, top panel mounted solution with threaded bolts. Meet **MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Part Number: K-TEK-B100-JS

Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.5KG
Dimension:	100.0mm x 116.0mm x 41.5mm (L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP54
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



Feature

IP65 dynamic rated compact format vandal proof stainless steel optical trackball with IP68 washable 38.0mm silver hardened resin or stainless steel optical trackball module with +800 DPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, with rubber sealing gasket under top stainless steel plate for easy sealing and tightly mounting with cabinet, stainless steel top plate with threaded bolts for top panel mounting solution. High quality durable black titanium electroplated on the top stainless steel plate. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, meet **MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.), **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.

Part Number: K-TEK-B78-38-OTB-BT-DWP

Mechanical Data

Key Lifespan:	>5 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	78.0mm x 100.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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 ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B100-DHP-BL-DWP

Feature

IP65 dynamic fully sealed and ruggedized force sensing resistor hula pointing device for fast and accurate cursor position, 2 backlighting mouse buttons for right & left clicking, with rubber sealing gasket under top stainless steel plate for easy sealing and tightly mounting with cabinet, stainless steel top plate with threaded bolts for top panel mounting solution. 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. Meet **MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.50KG
Dimension:	100.0mm x 116.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (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℃ ~ +65℃
Storage Temperature:	-30℃ ~ +75℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M110-38-MTB-AVB-NV-151B

Feature

IP65 static Vandal proof mechanical trackball with 38mm black hardened resin ball module with 400 DPI ~1000DPI adjustable resolutions and 3 sealed and ruggedized aluminum black mouse buttons for right/left clicking and scrolling up and down with ball rolling. The electronics controller module is shielded and protected by aluminum housing, high quality durable black titanium electroplated on the aluminum front panel to match the trackball and buttons, with threaded bolts for top panel mounting solution. With 4 x R5 angles to be smooth and scratch proof. Military level, designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, 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.

Mechanical Data

Key Lifespan:	>5 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	110.0mm x 126.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M120-50-MTB-AVB-NV-151B

Feature

IP65 static Vandal proof mechanical trackball with 50mm black hardened resin ball module with 400 DPI resolutions and 3 sealed and ruggedized mouse buttons for right/left clicking and scrolling up and down with ball rolling. High quality durable black titanium electroplated on the aluminum front panel to be scratch proof and withstand salt spray, with 4 sinking holes for top panel mounting solution. Military level, designed to Meet MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, 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.

Mechanical Data

Key Lifespan:	>5 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	120.0mm x 141.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (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℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M100-OTB-NV-151B

Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 400~1000 DPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, suitable for installation in any direction and can work well; the DPI can be adjusted before ex-factory and switched by sensing the moving speed of the trackball (resolution of 400, 800, 1000 optional) to meet requirements. Panel mounting solution. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.)

Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.40KG
Dimension:	136.8mm x 100.1mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40℃ ~ +75℃
Storage Temperature:	-45℃ ~ +85℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M112-OTB-NV-151B

Feature

IPX6 rated ergonomic military mouse with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 500~1000 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the DPI can be automatically adjusted and switched by sensing the moving speed of the trackball (resolution of 500, 800, 1000 optional) to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment, wear-resistant, antibacterial, and anti-salt spray features. With threaded bolts for top panel mounting solution and 4 x R3 angles to be smooth and scratch proof. USB output/aviation plug or other customized connector optional. Designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810F** (high and low wide temperature, low pressure, humidity, vibration, shock, 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.

Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	112.0mm x 150.0mm(L x W)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
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-M129-OTB-3B

Feature

IPX6 rated ergonomic thumb ball with 3 mouse buttons for right/left clicking, as well as middle key, integrated with a 34mm optical trackball module with 800~2400 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the DPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment to be wear-resistant, antibacterial, and anti-salt spray etc. With four sinking holes for top panel mounting solution. USB output or other customized connector upon request. Designed to meet **MIL-STD-810F** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), with strong anti-interference and low radiation ability. 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

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	129.0mm x 172.0mm x 44.3mm (L x W x H)

Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

Reliability

CE/FCC/ROHS, MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +65°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.