

Compact Car-Mounted Bluetooth Keyboard With TouchPad — Rugged, Waterproof, Dustproof

MKB-89-PLMN-V2



- IP68 Grade dustproof and waterproof
- Integrated touchpad can replace the mouse and save more space.
- Bluetooth 5.2 connection
- Integrated holder slot. (Supports most international interfaces brackets)
- With multiple installation fixed interfaces: VESA 100, VESA 75, AMPS 30x38mm Holer*4
- Power off/on key for easy cleaning via lock/disable the entire keyboard without needing to take the keyboard from PC, avoid mis-operation during cleaning process
- With MIL-STD durability (wide temperature, shock, vibration, humidity).

Mate's rugged military-grade keyboards are designed to withstand extreme conditions that typical consumer-grade keyboards cannot endure. These keyboards are built to meet strict military standards, ensuring that they can resist shocks, vibrations, moisture, dust, and temperature fluctuations. The materials used in their construction are reinforced, providing added durability and longevity. One of the most critical features of these keyboards is their ability to operate in a wide range of environments. Whether in a vehicle subjected to constant movement or in outdoor settings exposed to the elements, these keyboards are engineered to perform reliably. With sealed designs and high-quality components, they are less prone to failure, making them ideal for use in demanding applications.



MECHANICAL DATA

Keyboard Dimensions:	L: 297.80 ± 0.5mm (11.72") W: 191.50 ± 0.5mm (7.55") H: 29.00 ± 0.5 mm (1.04")
TouchPad Dimensions:	L: 74 ± 0.5 mm (2.91") W: 42 ± 0.5 mm (1.65")
Color:	White / Black / other (Available on customized)
N.W.:	About 840Gs
Material:	Silicone rubber keyboard and composite fireproof plastic Housing
Surface Treatment:	Spray ink+Laser engraving characters+PU oil
Keys:	US/UK/DE/FR/IT/ES/PT/BR/BT/NR (Available on required)
Key top style:	Protuberant rectangular keys with tactile feeling
Key technology:	Carbon-on-Gold contact
Key size:	16.0mm x 16.0mm for normal keys, 37.0mm x 16.0mm for enter key, 120.0mm x 16.0mm for space bar key.
Key travel:	2.0mm± 0.2 mm
Key operating force:	85g for normal keys, 90g for enter key, 95g for space bar key.
Rebound time:	MAX 8ms
Return force:	≥ 40g
Switch life:	More than 8 million of operations
Mounted Holes:	VESA 100, VESA 75, AMPS 30x38mm, Holes * M4 x 12pcs, Thread depth: 6mm

ELECTRICAL DATA

Interface:	Bluetooth5.2
Work distance:	Up 10m
Power:	4pcs x AAA battery
Supply Voltage:	6V
Operating current:	Min 10mA, Max 30mA
Quiescent current:	Min 50uA, Max 10mA
Sleep current:	Min 20uA, Max 40uA
EMC Standard:	EN60601-1
OS:	Windows Compatibility: Windows 10 or later Mac Compatibility: Mac OS X 10.10 or later Smartphone and Tablet Compatibility: Android tablet or Smartphone with Android 4.0 or later. Bluetooth Smart ready device with mouse support required (Bluetooth HID)
LED indicator status:	Num Lock green LED indicator status: On: enabled Off: disabled Caps Lock green LED indicator status: On: uppercase Off: lowercase Scroll Lock green LED indicator status: On: enabled Off: disabled BT Link LED indicator: Allow pairing: Blue light to flash, Pairing successful: Blue LED Off Power LED indicator status: Battery level below 20%, red light flashing

ENVIRONMENTAL ADAPTABILITY

Operating temperature:	-40℃~80℃
Storage temperature:	-40℃~85℃
Operating RH:	100%
Atmospheric pressure:	60-106Kpa
Saline mist:	96 hours, IEC 60512-6

RELIABILITY PARAMETERS

Coating Adhesion Test:	Baige method, 3M610 # tape 3 times -5B
Wear Resistance Test:	RCA, 175g force -28 times/20um
Alcohol Resistance Test:	95% Ethanol, 500g Positive pressure, Travel friction machine, Travel 16mm, Speed 68 cycles/min - 50 cycles without abnormalities
Saline mist Test:	96 hours, IEC 60512-6
Weather Resistance Test:	Ultraviolet irradiation - light energy of 250 μ W/cm2-300 hours without abnormalities.
Waterproof Test:	IP68
High Temperature Test:	Time: 96h Temperature: 85±2℃, Humidity: 100% R.H.
Low Temperature Test:	Time: 96h Temperature: -40±2℃,
Moisture Test:	Time: 96h Temperature: 40±2℃, Humidity: 100% R.H.
Thermal cycle test:	Temperature: -40±2℃ for 1 hour and then 85±2℃ for 1 hour Times of cycles: 15 cycles/sec 27 cycles without abnormalities
Keyboard lifespan test:	Load: 80gf vertical pressure Speed: 30 times per minute Times of keystrokes: Min ten million
Keys life test:	Test frequency: 3 cycles/sec Operating force: 90gf Max Lifespan times: 10 million cycles
Package Drop Test:	Times of drops: 6 times Drop height: 60±5cm Direction: Once in each of the six directions Drop surface: Plastic floor tile.
CERTIFICATE:	CE FCC ID RoHS IP68
Warranty:	2 years
APPLICATIONS:	MEDICAL: lab, hospital, clinic, dental, such as carts, diagnostic equipment, operation rooms, dialysis centers etc; MATERIAL HANDLING: mobile keyboard, data entry, assembly line etc. INDUSTRIAL: Industrial automation, pharmaceutical, oil and gas, food and beverage, clean or dirty manufacturing environments, warehouses MILITARY: Vehicle, aerospace, naval, defense, maritime, radar, console, portable, rugged laptop, UAV ground station etc.

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Technical specifications are subject to change without prior notice. Please check www.aitmon.com for the latest information