

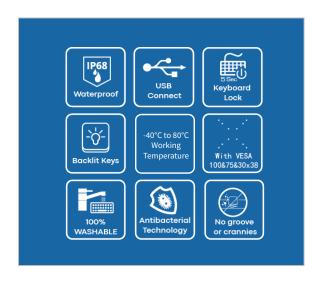
Sealed IP68 USB Keyboard

DT Research'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.



Features

- IP68 Grade dustproof and waterproof
- Integrated touchpad can replace the mouse and save more space
- With coiled tension relief USB cable
- Integrated holder slot (Supports most international interface brackets)
- · With adjustable red backlit
- With multiple installation fixed interfaces: VESA 100, VESA 75, AMPS 30x38mm holes x 4
- FN + CLEAN combination key for easy cleaning by 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)





Specifications

| Mechanical Data | | |
|---------------------------------|---|--|
| Keyboard Dimensions (H x W x L) | L± 297.80 ± 0.5mm (11.72") W±191.50 ± 0.5mm (7.55") | |
| Touchpad Dimensions (W x L) | H±26.50 ± 0.5 mm (1.04") L: 74 ± 0.5 mm (2.91") W: 42 ± 0.5 mm (1.65") | |
| Color | Black | |
| Weight | About 980g (2.16 lbs) | |
| Material | Silicone keyboard and ABS Housing | |
| Surface Treatment | Spray ink + laser-engraved characters + PU coating | |
| Keys | US | |
| 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 10 million operations | |
| Cable Length | Standard 1.8m coiled tension relief USB cable | |
| Electrical Data | | |
| Interface | USB-A | |
| Supply Voltage | 4.75V-5.25V | |
| Current Rating | ≤200mA | |
| EMC Standard | EN60601-1 | |
| Backlit | Red color | |
| os | All Windows, Linux, Unix, macOS, VxWorks, Android (μC/OS – to be confirmed) | |
| 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 | |
| Environmental Adaptability | | |
| Temperature | Operating temperature: -40°C to 80°C Storage temperature: -40°C to 85°C | |
| Humidity | 0% to 100% non-condensing | |
| Atmospheric Pressure | 60-106Kpa | |
| Saline Mist | 96 hours, IEC 60512-6 | |

| Reliability Parameters | | |
|-------------------------|--|--|
| Coating Adhesion Test | Cross-cut 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°C, Humidity: 0% to 100% non-condensing | |
| Low Temperature Test | Time: 96h Temperature: -40±2ºC | |
| Moisture Test | Time: 96h Temperature: 40±2°C, Humidity: 0% to 100% non-condensing | |
| Thermal Cycle Test | Temperature: -40±2ºC for 1 hour and then 85±2ºC 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, RoHS, IP68 | |
| Warranty | 1 year | |
| Applications | 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. | |

 $[\]ensuremath{^{*}}$ Specifications subject to change without notice.