

VES-K8301

83 keys rugged keyboard with touch pad

Features

- 83 keys keyboard with touchpad
- Rugged industrial design, IP65 graded
- Red backlight
- Robust PBT keycap design with legends done by sublimation, ensuring durability
- USB interface or Bluetooth interface (together with USB charging Lithium battery)
- Dual functionality with USB charging Lithium battery for the Bluetooth version, offering flexibility in power options.
- FCC, CE, ESD, and RFI certified for regulatory compliance

Appearance



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Revision Table

Date	Revision	Content	By
2023/11/27	0.1	First Draft	Anu

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Specification

USB Interface	
Power Supply	+5V/DC
Current Input	<100mA
Bluetooth Interface (Optional)	
BLE/2.4 GHz Multi-Protocol Device	
Bluetooth Low Energy Protocol Stack	
Data Rates	2Mbps/ 1Mbps/ 250Kbps
Frequency Range	2400-2483.5 MHz
Tx power	+4 to -20 dBm
Rx sensitivity	-93 dBm type
Antenna	PCB Antenna
Touchpad	
Active sensing area	61.80 x 45.8 mm
Detection Method	Mutual capacitance sensing
X/Y position sensing resolution	Up to 40 counts/mm
Tracking speed	Up to 1016 mm/sec.
Lifetime (Plastic Overlay)	Min. 10,000,000 strokes
Sample Rate	Up to 300 samples/sec.

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Specification

Mechanical	
Total travel	4-0.5 mm
Peak Load	65 ± 20 cN
Life Cycle	10 million keystrokes
Dimensions	
USB	304.3 x 196.3 x 32.7 mm
Bluetooth	309.4 x 205.3 x 59.2 mm (includes bracket and handle)

Environmental Performance

Operating temperature	0°C to +50°C
Storage temperature	-40°C to +80°C
Operating Humidity	20% to 90%
Housing Material	PC + PBT

Deliverables

- | | |
|---|--|
| 1 | 83 keys rugged keyboard with touch pad |
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Ordering Information

Model Name	Description	Unit
VES-K8301	83 keys rugged keyboard with touch pad	1