

# RK83A

## Rugged Keyboard



# FENGYU





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### Main Features

- Rugged industrial design, with Touchpad, IP65 graded
- 83 keys keyboard with Touchpad
- Support RGB backlight effect mode
- Full travel mechanical key with sealed membrane, good tactile feelings
- Rugged PBT keycap design with legends done by sublimation, durable
- Housings are made of tough Industrial grade materials
- FCC, CE, ESD and RFI certified
- USB interface or Bluetooth interface (together with USB charging Lithium battery)
- Bluetooth version comes with stainless steel bracket and handle

## Technical Data

### [Electronics]

#### USB Interface

Power supply: +5V/DC

Current input: <100mA

#### Bluetooth Interface

BLE / 2.4GHz Multi-Protocol Device

Supports S110/120/130 Bluetooth Low Energy Protocol Stack

3 Data Rates (2Mbps/1Mbps/250Kbps)

Frequency range: 2400 - 2483.5 MHz

Tx power: +4 to -20 dBm

Rx sensitivity: -93 dBm typ

Antenna: PCB Antenna

### [Touchpad]

Active Sensing Area: 61.80 x 45.8 mm

Position Detection Method: Mutual capacitance sensing

X/Y Position Sensing Resolution: Up to 40 counts / mm

Tracking Speed: Up to 1,016 mm / sec

Lifetime (Plastic Overlay): Minimum 10,000,000 strokes (500 km)

Sample Rate: Up to 300 samples / sec

### [Mechanical]

Total travel: 4 - 0.5mm

Peak load before make:  $65 \pm 20$ cN

Life Cycle: 10 million keystrokes

### [Others]

Storage temperature: -40°C to +80°C

Operating temperature: 0°C to +50°C

Operating humidity: 20% to 90%

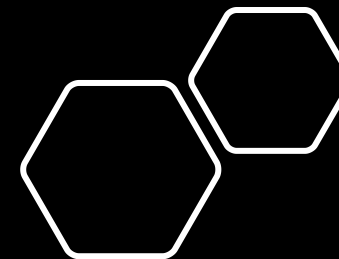
Housing Material: PC + PBT

### [Dimensions]

USB: 304.3 x 196.3 x 32.7, mm

Bluetooth: 309.4 x 205.3 x 59.2, mm

(includes the bracket and handle)



# HENGYU

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# Technical Specification

