

# RK83R

## Rugged Keyboard



# FENGYU



# RK83R

## Rugged Keyboard

The logo for FENGYU, featuring the word "FENGYU" in a bold, sans-serif font. The letter "F" is red, and the remaining letters "ENGYU" are blue.

### Main Features

- Rugged industrial design, IP65 graded
- 83 keys keyboard with Touchpad
- Support RGB backlight effect mode
- Using industrial grade silicon rubber key design with tactile key feeling
- Housings are made of tough Industrial grade materials
- Legend are done by laser etching over painting surface, protected by silicon coating on top
- 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 45.80 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: 60 ± 20cN

Life Cycle: 10 million keystrokes

## [Others]

Storage temperature: -40°C to +80°C

Operating temperature: 0°C to +50°C

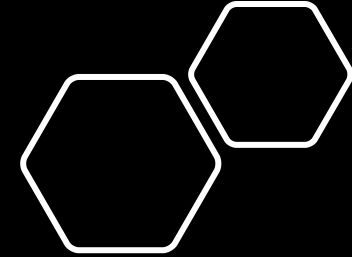
Operating humidity: 20% to 90%

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

Heng Yu Technology (HK) Limited  
<http://www.hengyu-tech.com>

# Technical Specification

