KB089-1171X-OEM FlexSilicone™ Keyboard
Compact User-Programmable USB and PS/2 Industrial Keyboard
with a 360 Smooth Hall Effect Pointing Mouse

Sprintek Corporation

Description

KB089-1171X-OEM is compactly designed with pointing device and a dedicated 'URGENCY' key, to reliably operate in harsh situations. When 'urgency' key pressed, the keyboard sends a signal of Shift+F1. The open frame keyboard perfectly fits in custom panel and console for OEM, when properly sealed, KB089-1171X-OEM meets MIL-STD-461E and NEMA4/IP67 specifications. It features excellent tactile feel and backlit operation in low light environment.

Applications

- Laptop and portable workstation
- Rugged computing
- Marine consoles
- Gloved operation ● OEM and SI

Main Features

- Integrated pointing device
- A dedicated 'URGENCY' key
- Excellent tactile feel
- LED backlight with adjustable brightness
- Waterproof, dustproof, resistant to salt fog and most chemicals(properly installed)
- FCC, UL, CE and RoHS compliant

Specifications

- Key material: elastomer keys with wearproof laser engraved legends
- Layouts: all country variants are available
- Key switch technology: silicone switch pad with carbon, gold-plated PCB
- Key Size: 12.5 x 11mm(F1~F10); 12.5 x 13.5mm(number&character key)
- Key travel: 1.5mm
- Operating force:140±30g
- Switch life: >2 million cycles
- Pointing device: Hall sensor
- Voltage: 5V ± 5%
- Current: 50mA ~ 250mA(for backlighting)
- Keyboard backlight colour: yellow green as default, others on request
- Keyboard backlight adjustment: 8 levels circulating by one dedicated key
- Interface: USB or PS/2
- Case material: No case
- Mechanical Mouting: embedded by means of Φ2.3x2.5 holes or RTV adhesive
- Dimensions: 11.1" x6.02" x0.65" (282mm x153mm x16.5mm)
- Weight: 0.41 kg
- OS Compatibility: All Windows and Macintosh operating systems

Environmental Adaptability

- Operating temperature: – 40 to +70℃
- Storage temperature: – 40 to +85℃
- Relative humidity: 100%(properly installed)
- Waterproof: NEMA4/IP67(properly installed)
- EMC: meets MIL-STD-461E(properly installed)
- Electrostatic discharge(ESD) immunity: IEC 801 EN61000-4-2 6kV direct and 8kV air
- Vibration: power spectral density: 0.04g/Hz frequency range: 20Hz~2kHz duration of test per axis: 3 hours
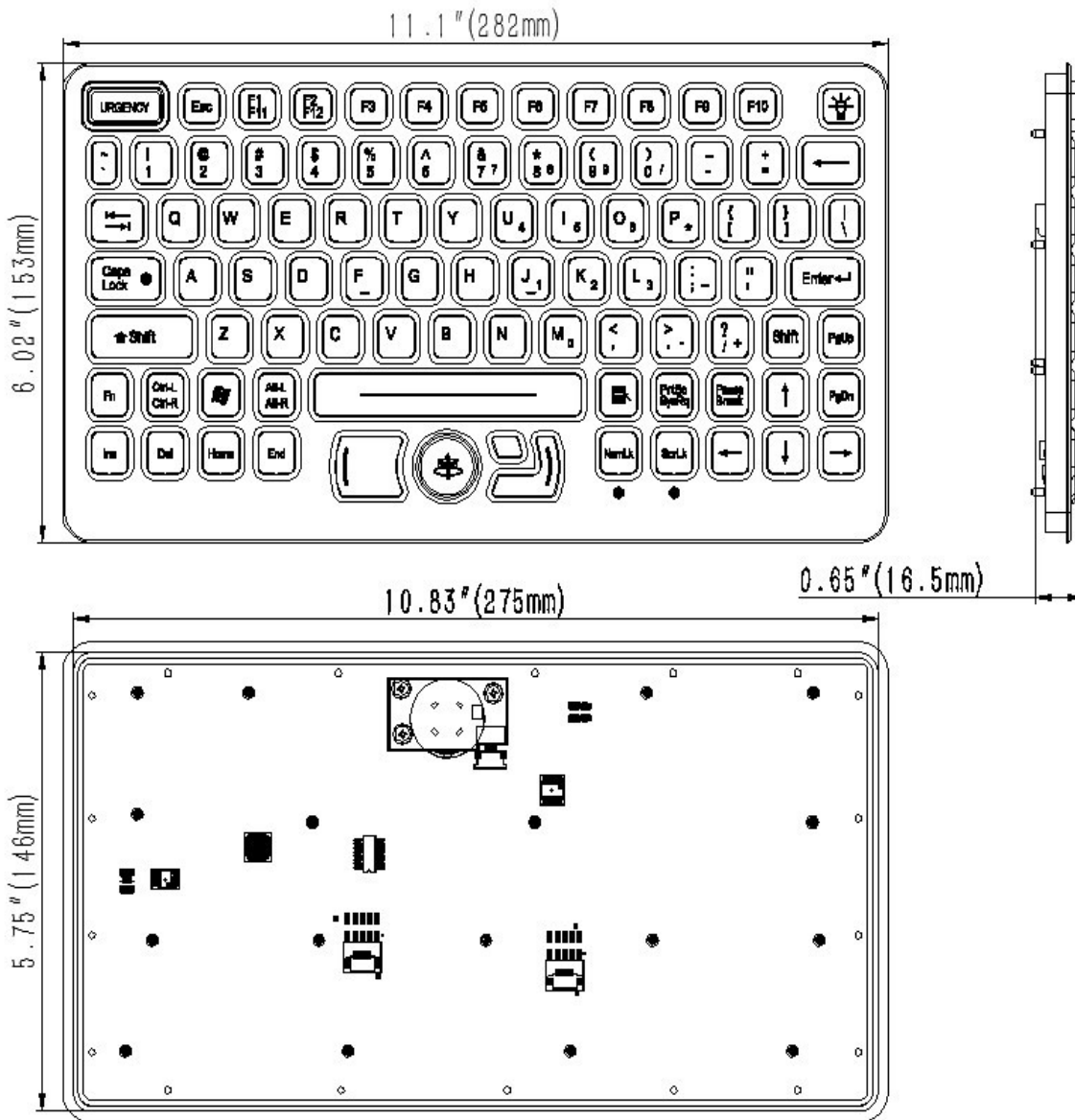- Shock: 3x11ms pulses of 50g on each of 3 axes

Interface Definition

The keyboard in USB and PS/2 interface takes the same connector, the following table shows the description of each pin:

Pin	USB	USB description	PS/2	PS/2 description
1	5V	J1/J3(keyboard & mouse connector, SMT): **Molex 53261-0571**	5V	J1/J3(PS/2 keyboard connector, SMT): **Molex 53261-0571**
2	D-		Data	

3	D+	Matching cable connector(Receptacle):	Clock	J2/J4(PS/2 mouse connector, STM):
4	GND	**Molex 51021-0500**	GND	**Molex 53261-0571**
5	Shield		Shield	Matching cable connector(Receptacle): **Molex 51021-0500**

Dimension

Part Number

Part Number	Product Description
KB089-1171X-02-OEM(LY)	Black elastomer/white legend keyboard with integrated HALL pointing device, yellow green backlight, USB or PS/2 interface, Φ2.3x2.5 holes, no case

KB089-1171X-05-OEM(LY)	Dark grey elastomer/white legend keyboard with integrated HALL pointing device, yellow green backlight, USB or PS/2 interface, Φ2.3x2.5 holes, no case
*LY=Layout(US as default, DE-German Qwertz, UK- Britain Qwerty, FR- French Azerty, RU-Russian Cyrillic, TR-Turkish Qwerty, DK-Danish Qwerty, IT-Italy Qwerty, ND-Nordic)	
*X=Interface(0-PS/2, 1-USB) *Other colour backlight on request	