Silicone Keyboard Family

KB101-1041X-OEM FlexSilicone[™] Keyboard Full Size User-Programmable USB and PS/2 Industrial Keyboard



Description

KB101-1041X-OEM is an open frame keyboard for OEM. It is designed with large numeric pad, to reliably operate in harsh situations. It perfectly fits in custom panel and console, when properly sealed, it meets MIL-STD-461E and NEMA4/IP67 specifications. KB101-1041X-OEM has 101 ergonomic elastomer keys, provides excellent tactile feel and backlit operation in low light environment.



Applications

- Rugged computing
- Console and workstation
- Marine consoles
- Gloved operation OEM & SI

Main Features

- Full-size keyboard with large key in numeric pad area
- Excelent tactile feel
- LED backlight with adjustable brightness
- Waterproof, dustproof, resistant to salt fog and most chemicals(properly installed)
 FCC, UL, CE and RoHS compliant

KB099-1141X-OEM Silicone Keyboard Datasheet

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: 14 x 14mm(F1~F12, number&character key&number key in numeric pad area) Key travel: 1.5mm
- Operating force: 160±30g
- Switch life: >2 million cycles
- Voltage: $5V \pm 5\%$
- Current: 50mA ~ 250mA(for backlighting)
- Keyboard backlight colour: red as default, others on request
- Keyboard backlight adjustment: 8 levels by two dedicated key
- Interface: USB or PS/2. For USB, one PS/2 peripherals extensible
- Case material: No case
- Mechanical mouting: embedded by means of M2.5x2.5 threaded holes or RTV adhesive
- Dimensions: 14.409" x5.354" x0.585" (366mm x136mm x14.9mm)
- Weight: 0.475 kg
- OS Compatibility: All Windows and Macintosh operating systems

Environmental Adaptability

- Operating temperature: -40 to $+70^{\circ}$ C
- Storage temperature: 40 to +85°C
- 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:

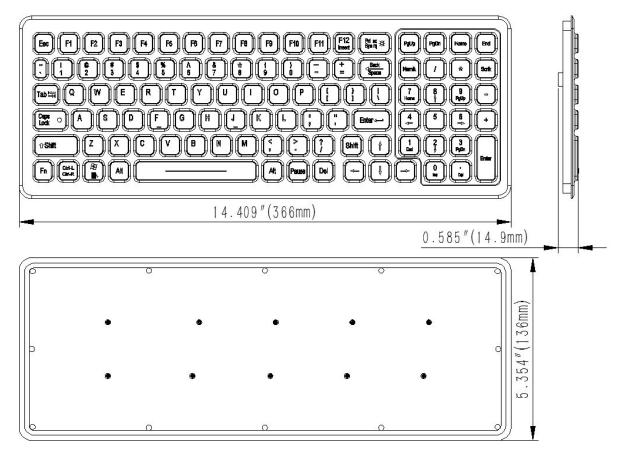
Pin	USB	USB description	PS/2	PS/2 description
1	5V	J1/J3(keyboard connector, male):	5V	J1/J3(PS/2 keyboard connector, male):
2	D-	Molex 89401-0510	Data	Molex 89401-0510
3	D+	J2/J4(PS/2 peripheral connector, male):	Clock	Matching cable connector(female):

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Sprintek Corporation

4	GND	Molex 89401-0510	GND	Molex 87369-0500
	Shield	Matching cable connector(female):		(Re: 1.25mm pitch connector available)
5		Molex 87369-0500	Shield	
		(Re: 1.25mm pitch connector available)		

Dimension



Part Number

Part Number	Product Description				
KB101-1041X-01-	Black elastomer/white legend, full-size keyboard, red backlight, USB or PS/2				
OEM(LY)	interface, M2.5x2.5 threaded holes, no case				
KB101-1041X-05-	Dark grey elastomer/white legend, full-size keyboard, red backlight, USB or				
OEM(LY	PS/2 interface, M2.5x2.5 threaded 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)					
*X=Interface(0-PS/2, 1-USB)					
*Other colour backlight on request					