



# X-Key (China) Limited

**SERIES NO.:** X-TP114SD

**DESCRIPTION:** IP68 rated industrial silicone rubber keyboard with integrated numeric keypad, sealed ruggedized touchpad, function keys and backlight, with carbon-on-gold key switch technology with long stroke 1.50mm, with antimicrobial keyboard surface, standard alone desk top version.

**MODEL NO.:** X-TP1141SD

**DIMENSIONS:** 409 x 139 x 11 mm (L x W x T)



## APPLICATIONS:

1. This keyboard provides full-size versatility in a rugged, compact design with the added convenience of an integrated touchpad. Engineered for NEMA 4X protection from dust, water and corrosive liquids. This keyboard is ideal for use in environments ranging from manufacturing to material handling to medical settings. Its numeric pad allows for easy data entry.
2. **MEDICAL:** lab, hospital, clinic, dental, such as carts, diagnostic equipments, operation rooms, dialysis centers etc;
3. **MATERIAL HANDLING:** mobile keyboard, data entry, assembly line etc
4. **MILITARY:** Army, Navy, Air force
5. **INDUSTRIAL:** Industrial automation, pharmaceutical, oil and gas, food and beverage, clean or dirty manufacturing environments, warehouses
6. **OTHER INDUSTRIES**

## MAIN FEATURE

1. LED provides well-distributed backlight for each key.
2. 2-step adjustable brightness of backlight.
3. With keyboard main power ON/OFF switch, allowing user to clean at any interval with minimal downtime.
4. LED ON/OFF key, brightness increase key/reduce key.
5. Keyboard provides full-size versatility in a rugged, compact design, rugged construction for reliable functionality
6. The keyboard lacks the crevices found between the keys of a regular keyboard, which is protected against dust, dirt, grease and corrosive liquids to NEMA 4X, which means it can withstand directed hose water, disinfectants, environmental contaminants and heavy industrial use.
7. Special dura-coating for excellent mechanical and chemical resistance
8. With firm tactile key feel, key travel 1.5mm key travel.
9. Integrated numeric keypad.
10. Ease of customizing with multiple languages, to accommodate foreign or custom variants.



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11. PS/2, USB connection cables that plug directly into computer like keyboard operations.
12. Enclosure: **industrial silicone with antimicrobial material.**

## MECHANICAL DATA

1. Key: 114 keys
2. Key top style: Protuberant rectangular keys with tactile feeling.
3. Switch life: more than 10 million of operations.
4. Cable Length: 1.5m
5. G.W.: 1.1KGs
6. Dimensions: 409 x 139 x 11 mm (L x W x T)

## TOUCHPAD DATA

1. Touchpad cover: Composite
2. More than Lifetime 10 million strokes
3. Mutual Capacitance sensing
4. X/Y position sensing resolution: 40 counts/mm
5. X/Y position reporting: Relative
6. Output (self-detectable depending on cable): PS2 or USB
7. Tracking speed: Maximum 1,016 m/sec
8. Power supply voltage: 5 VDC  $\pm$ 0.25V
9. Current rating (active mode): 17 mA

## ELECTRICAL DATA

1. Supply Voltage: +5V DC +/-5%
2. Current Rating:  
PS2: keyboard with 210mA@5V (from keyboard port)  
USB: 220mA@5V (from CPU port)
3. EMC Standard: It is compliance with the council EMC directive 89/336/EEC EN55022: 1988+A1:2000+A2:2003  
EN55024: 1988+A1: 2001+A2:2003
4. Emission: EN 50081-1
5. Immunity: EN 50082-1
6. Lifespan > 3 years
7. Switch Contact Material: Carbon-on-Gold key switch technology with gold PCB.
8. Interface: PS2, USB available.
9. **OS: DOS/Windows95/98/NT/ME/2000/2003/XP/Vista/7, Linux, Unix, Mac OSX**

## ENVIRONMENTAL ADAPTABILITY

1. Operating temperature: -30°C to +65°C
2. Storage temperature: -40°C to +65°C
3. Humidity: 100%
4. Atmospheric pressure: 60-106Kpa



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5. Shock: 3x11 ms pulses of 50g on each of 3 axes
6. Vibration: POWER SPECTRAL DENSITY: 0.04g/Hz, FREQUENCY RANGE: 20Hz - 2kHz, DURATION OF TEST PER AXIS: 3 hours
7. Flammability  
PRINTED CIRCUIT BOARD: 94 VO  
SILICONE OVERLAY: 94 HB  
INTERFACE CABLE: 94 V

## RELIABILITY

1. RoHS Compliant, CE and FCC
2. Protection Level: IP68, NEMA 6P
3. Key Lifespan >10 million actuations
4. MTBF >50000H
5. MTTR <30min



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