

The Specification Of KB84N

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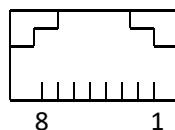


A General Information

The KB84N is a high performance waterproof and dustproof programmable membrane keyboard, With the function of MSR and E-clock, supporting interface of USB/PS2(it just need to replace a cable when user want another different connect USB or PS/2, without any change of the hardware, software, and program). White and black for choice. [Support OPOS&JPOS.](#)

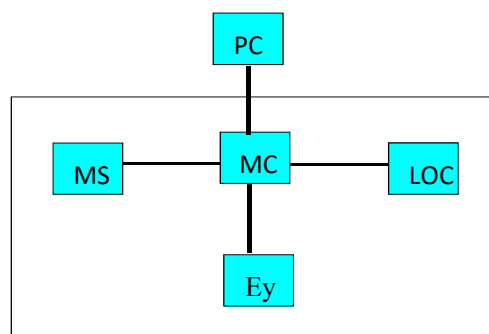
B Physical properties

- Main Material: ABS
- Unit size(L*W*H): 250*210*55mm
- Master carton: 570*380*280mm
- N.W: 950g(without accessories)
- N.W/G.W: 11.8KG/12.8KG(10 pieces/carton)
- Cable: 1.8M(Customized)
- Instruction for Interface:
 - 1、 PS2 mode (Can connect to standard PS2 keyboard): One side of 6 pin PS/2 connect to the terminal, The other side of RJ45 connect to programmable keyboard(Then the extended PS2 port is valid)
 - 2、 USB: Male connector of USB connect to mainframe,the other side of RJ45 connect to programmable keyboard(Then the extended PS2 port is invalid)



RJ45 pin definition: 1—+5V, 2—Ground, 3—KB_DATA, 4—AT_CLK, 5—PC_DATA, 6—KB_CLK, 7—USB_D-, 8—USB_D+, Shell-Shielding

- Function Structure Diagram



C Electrical Specification

- Working Voltage: DC+5V $\pm 10\%$
- Working Current: $\leq 150\text{mA}$
- Insulation Resistance: $> 50\text{M}\Omega$
- Contact Resistance: $< 1\text{K}\Omega$

D Keyboard Feature

- Key: Membrane
- Key pressure: $55 \pm 15\text{g}$
- Pre-stroke: $2.3 \pm 0.4\text{mm}$
- Total Stroke: $4.0 \pm 0.5\text{mm}$
- Key Lifetime: 10000000times
- Any adjacent two keys can be defined to be a double fold(1×2) key, any four adjacent single key can be defined to be a four fold(2×2) key
- Various function combination keys can be set arbitrarily, each key can be programmed up to 180 characters in a single layer
- Support function of "True status lock", any key can be defined as Numlock、Capslock、Scrolllock、Shift、Ctrl、Alt、Esc、F1、Caps lock and soon.
- Provide "multi-layer key" function, keyboard can be defined through the layer to cooperate with POS management software for hierarchical privilege management, or expand the number and function of keys. Each key can define up to 15 switching layers, making POS operation more flexible and changeable
- 100 years data retention without additional battery
- When choose PS2 interface, Supply a expanded PS2 interface, can be connected to the standard keyboard or bar code scan gun
- EMC radiation meets Class B requirements, antistatic design (Refer to GB4943、GB/T1762)
- Support two interface: USB、PS/2
- Operating system: The PS/2 is suitable for DOS, Win9X, Win Me, Win2000, Win XP, Win7-32bits; The USB is suitable for Windows, Android, Linux

E MSR Specification

- Accord to ISO7811
- Swipe Speed: 10-120cm/s
- Head Lifetime: ≥500000 times
- Coercivity range: 300-4000 Oe
- The Density of Magnetic Stripe:

Track 1--210BPI with max 76 characters

Track 2--210BPI with max 104 characters or 75BPI with 37 characters; Track 3--210BPI with max 104 characters

- Track: 1 or 2 or 3 track; 1、2 track; 2、3 track; 1、2、3 track
- Power Supply: DC+3.3V

F E-clock Specification

- 6 levels of the lock
- Lifetime: ≥30000 times,
- Torsion: 1.5 kgfFour key types: the “X” control 3 levels; the “SP” control 6 levels; the “Z” control 4 levels; the “PZ” control 5 levels.

G MSR Setting Interface

Magstripe Card Reader Setting

Start Sentinel: End Sentinel:

Track1 ☒ % ☐ Return Code Update

Track2 ☒ : ☐ Return Code OK

Track3 ☒ : ☐ Return Code

JIS II

Header: ☐ ASCII ☐ Code Suffix: ☐ ASCII ☐ Code

Reading Sequence: 1-2-3 ☒ Enable Beep

☐ Support IBM Card ☐ Output Data For Any Valid Track

Do not use mouse and keyboard while downloading

Progress Strip:

key Code(Pos Index :00)

Mapping Sequence

Code	Value
1	0
2	Left Ctrl Down
3	Left Alt Down
4	
5	
6	
7	

Special Codes

Code	Value
1	Europe 1
2	Europe 2
3	F13
4	F14

Hex Code: OK Insert

Keyboard

Exc F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Wake Sleep Power USA

Tab-> Q W E R T Y U I O P [] \ / ~

Caps A S D F G H J K L ; ' Enter Del End PgDn 4 5 6 +

Shift Z X C V B N M , < . > ? / Shift ↑ ↓ ← → 1 2 3 Enter

Ctrl LwIN Alt Alt RWIN Ctrl

H Keyboard Parameter Setting

Keyboard Parameter

Keyboard Delay

Delay Time

Key Repeat ☐ Yes ☒ No

Ext Keyboard ☒ Yes ☐ No

Beep With PowerOn ☐ Yes ☒ No

Beep Setting

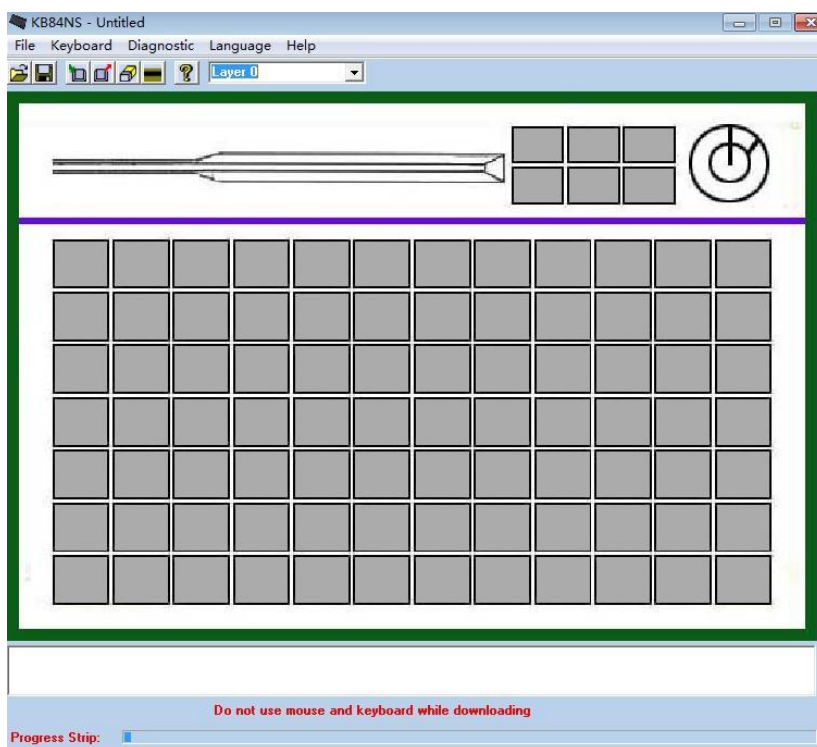
☒ Press With Sound

☐ Press Without Sound

☐ Only Programmed Key Beep Enable

Save Settings Previous Menu

I Key Value Factory Reset



J Accessories

1. Keycap and transparent keycap
Single blind spot keycap(1*1): 1pc
2 fold Keycap(with transparent keycap)(1*2): 5pcs
4 fold keycap(with transparent keycap)(2*2): 1pc
2. Cable: 1PC(USB or PS/2)
3. Key Holder: 1PC
4. E-lock keys: 4PCS



K Packing

- 1 Inner Packing: Inner Box&Inner Card and PP Bag



Key Holder, E-clock

Keycap/PP Bag

Cable

- 2 Master Box

Size: 57.5*37.5*28cm/10 pieces

N.W/G.W: 12.8/9.6KG

L Environment

- Working Temperature: 0±45 °C
- Working Humidity: 10%-- 90%
- Storage Temperature: -20 ±50 °C
- Atmosphere: 86-106Kpa

Attachment

