

2.4g Keyboard Manual (V7.0)

Product overview

1. Compatible with USB1.1/2.0 specification, can assist USB-IF and WHQL
2. High quality BK2425 RF, 16 channel adaptive frequency hopping, stable/low power consumption/strong anti-interference ability, no direction
3. Ultra-low power design (working =0.7mA, Sleep =3uA)
4. Support 8*18 matrix, and multi-language version
5. Can support 18 standard multimedia functions
6. Supports CAPS LOCK and NUM LOCK indicators, and synchronizes LED status with that of the host
7. Built-in maintenance mode, easy to detect and repair defective products
8. Support computer sleep wake up and their own sleep wake up
9. Intelligent multi-stage power saving design
10. Supports the Mouse/Keyboard mode

The code that

Method 1: Combine key pair codes

Press "ESC" + "+/= " for 1 second at the same time, the keyboard enters the code matching mode (the low-voltage indicator is on long), and the receiver is inserted for 20 seconds To code success, LED immediately off; The code matching fails. After 20 seconds, the keyboard exits the code matching mode and the LED is off

Mode 2: Code key Code

Press the code key, the keyboard into the code mode (low voltage indicator light long on), insert the receiver within 20 seconds. The LED will be turned off immediately. Destroyed; The code matching fails. After 20 seconds, the keyboard exits the code matching mode and the LED is off

Method 3: Software code matching

Open the code matching software, insert the receiver into the USB interface, automatically enter the code matching mode, press the keyboard code matching key or "ESC" + within 20 seconds "+/=" key 1 second code, if the code is successful, the software display < Keyboard code matching success > ; Otherwise, the code matching mode will be launched 20 seconds later.

Functional description

Low voltage LED lamp: used to indicate low voltage and code status; At the same time, it can be used to indicate the problem point of defective products during maintenance

1. Code matching status indicator - the keyboard enters the code matching mode, the low-voltage LED is steady on, the code matching is successful, and the low-voltage LED is off
2. Low voltage status indicator - when the battery is at low voltage, the low voltage LED flashes, the voltage is normal, and the low voltage LED goes out
3. Indication of abnormal function:
 - 1) Under normal circumstances -- power on, the indicator lights up for a while and then goes off
 - 2) The indicator light is off -- MCU does not work

3) The indicator is steady on -- RF is not working or EEPROM is not working

** Numlock + Caps 2 LED states can be synchronized with the host

When Numlock/Caps is enabled, the LED lights up and indicates 5 seconds. If there is a button within 5 seconds, re-time 5

Seconds (off 5 seconds after release of the button), if there is a button after the light continues to light for 5 seconds

Note: the low pressure indicator flashes 5 times after reaching the set value. When pressed by a button, re-time for 5 seconds until the battery runs out

Explanation current

Power consumption of the whole machine (2 batteries, 3V)

Operating current (with button pressed) 0.7mA

Static current (press release) 3uA

Keyboard matrix application instructions

Large keyboard state

1. 104/107 key large keyboard Matrix compatible with Yilong EMC83053, key arrangement see "keyboard Matrix" on the following page

2.Fn + F1-F12 multimedia function description

Press and hold Fn, then press F1-F12, f1-F12 becomes multimedia function key

Default	Hot key	Default	Hot key	Default	Hot key	Default	Hot key
F1	Media	F4	Mute	F7	Play/Pause	F10	E-mail
F2	Volume-	F5	PreTrack	F8	CD Stop	F11	My computer
F3	Volume+	F6	NextTrack	F9	web home	F12	wwwFavorite

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The keyboard Matrix

	R0	R1	R2	R3	R4	R5	R6	R7
C0	<i>Pause</i>	<i>Power</i>	usb dongle	<i>Sleep</i>	<i>Ctrl-R</i>	<i>Wake up</i>	<i>Ctrl-L</i>	F5 (pre track)
C1	Q	Tab	A	Esc	Z	N-chg	Y(~)	1 (!)
C2	W	Caps	S	K45	X	Chg	F1 (media)	2 (@)
C3	E	F3 (vol+)	D	F4 (mute)	C	ROMA	F2 (vol-)	3 (#)
C4	R	T	F	G	V	B	5 (%)	4 (\$)
C5	U (4)	Y	J (1)	H	M (0)	N	6(^)	7 (& (7)

Electrical characteristics

Keyboard IC_ CX5177

symbol	And the number	VDD	The state	The smallest plant	Typical values	The maximum	unit
VDD	Working voltage			2.4	3.0	4.5	V
IDD	Working current	3V	standby			≤3.0	uA
Fosc	The system frequency	3V				1.0	Mhz

Receiver IC_ CX5167

symbol	And the numbe	VDD	The state	The smallest plant	Typical values	The maximum	unit
VDD	Working voltage			4.5	5.0	5.5	v
IDD	Working current	5V	work		≤10.0		mA
Fosc	The system frequency	5V			6.0		MHZ

2.4G RF IC _ BK2425

symbol	And the numbe	VDD	The state	The smallest plant	Typical values	The maximum	unit
VDD	Working voltage			1.9	3.0	3.7	V

IDD	Working current	3V	work		23		mA
			standby		3		uA
Fosc	The system frequency	3V			16.0000		MHZ
Freq	Working frequency band			2402		2480	MHZ
Rx Sens	Reception sensitivity			-80	-87		dbm

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Caution Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

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