

Product name	Confidentiality level
E8231s	CONFIDENTIAL
Product version	Total 7
V1.0	pages

E8231s-6TCPU-22.621.07.00.00 Firmware

Release Notes

V1.0

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Revision Record

Date	Revision version	Change Description	Author
2014/1/6	1.0	First version	E8231s Team

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Abbreviations	Description
3GPP	The 3rd Generation Partnership Project
TS	Technical Specification
SIM	Subscriber Identity Module
LED	Light-Emitting Diode
USIM	UMTS Subscriber Identity Module

1 Main Features

The **E8231** supports the following standards:

- HSPA+ downlink data service of up to 21.6Mbps
- HSDPA data service of up to 14.4Mbps
- HSUPA data service of up to 5.76Mbps
- UMTS PS domain data service of up to 384 kbps
- EDGE packet data service of up to 236.8 kbps
- GPRS packet data service of up to 85.6 kbps
- UMTS/GSM Short Message Service (SMS).
- Receive diversity
- NDIS interface
- Wi-Fi AP , supports up to 10 users
- microSD Card, supports up to 32G
- WebSD, share microSD Card's files by WebUI
- Support Firewall, UPnP, ALG and NAT function;
- Plug and play
- Standard USB 2.0 interface
- Support device management and setup via WebUI
- Windows XP SP3、Windows Vista SP1/SP2、Windows 7、Windows 8、
- Mac OS X 10.6 、 Mac OS X 10.7、 Mac OS X 10.8 with latest upgrades.

2 Hardware

2.1 Version Description

Hardware Version:	CH1E8231SM
Platform & Chipset:	Chipset:Balong V3R3 WiFi Chipset:BroadcomBCM43362

2.2 Hardware Specifications

Item	Specifications
Technical standard	WCDMA Rel '99 plus Rel 5 HSDPA, Rel 6 HSUPA, Rel 7 HSPA+(cat 14), GSM/GPRS/EDGE WLAN: IEEE 802.11b/g/n

Item	Specifications	
Operating frequency	WLAN: 2400MHz~2483.5MHz	
Memory capability	128MB Flash, 32MB Memory	
Maximum transmitter power		UMTS: 22 dBm
		GSM/GPRS 850/900MHz: 33dBm
		GSM/GPRS 1800/1900MHz: 30dBm
		EDGE 850/900MHz: 27dBm
		EDGE 1800/1900MHz: 28dBm
	WLAN:	802.11b: 13 (+/-3) dBm
		802.11g: 11 (+/-3) dBm
		802.11n: 11 (+/-3) dBm
Static receiver sensitivity	WCDMA/HSPA+: Compliant with 3GPP TS 25.101(R8)	
	GSM/GPRS/EDGE: Compliant with 3GPP TS 05.05 (R99)	
	WLAN 802.11b: -76dBm@11Mbps/-82dBm@1Mbps	
	WLAN 802.11g: -65dBm@54Mbps	
	WLAN 802.11n: -64dBm@65Mbps	
WLAN air interface speed	802.11b: up to 11Mbit/s	
	802.11g: up to 54Mbit/s	
	802.11n: supporting MCS0~MCS7, up to 72.2Mbit/s	
Maximum power consumption	3W	
Power supply	4.75V-5.25V / 600mA	
External interfaces	USB 2.0 High Speed	
	SIM card: standard 6-pin SIM card interface	
LED	Indicates the status of the E8231	
Size	88mm x27mm x 11.5mm	
Weight	<30g	
Temperature	<ul style="list-style-type: none"> Operating: -10℃ to +45℃ Storage: -20℃ to +70℃ 	

2.3 Improvements in the Previous Version

Index	Case ID	Issue Description
1		

2.4 Known Limitations and Issues

Index	Case ID	Issue Description
1		

3 Firmware

3.1 Version Description

Firmware Version: 22.621.07.00.00
Baseline information Balong V3R3 C50

3.2 Improvement in the Previous Version

Index	Case ID	Issue Description