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

E8231s-2TCPU-22.621.13.00.00

Release Notes V1.0

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|-------------|-------------|------|-----------|
| Prepared by | E8231s Team | Date | 2014/3/11 |
| Reviewed by | E8231s Team | Date | 2014/3/11 |
| Approved by | E8231s Team | Date | 2014/3/11 |



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Revision Record

| Date | Revision version | Change Description | Author |
|-----------|------------------|--------------------|-------------|
| 2014/3/11 | 1.0 | First version | E8231s Team |
| | | | |
| | | | |

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E8231s-2TCPU-22.621.13.00.00 Release Notes

| 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
- 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: 22.621.13.00.00
Baseline information Balong V3R3 C50

3.2 Improvement in the Previous Version

| Index | Case ID | Issue Description |
|-------|---------|-----------------------------|
| 1 | | Resolve the plmn list issue |