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# E8278s-602TCPU-V200R001B261D67SP03

## C405 Firmware Release Notes

### V1.1

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## Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2013-5-22	1.0	FW 21.261.67.00.00 WebUI/HiLink 13.100.03.02.03	First versison.	E8278s Team
2013-9-26	1.1	FW 21.261.67.03.405 WEBUI13.100.03.02.405	New requirements	E8278s Team

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## E8278s-602 Firmware Release Notes V1.2

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 **E8278s-602** supports the following standards:

- | LTE FDD Band: B3(1800)/B7(2600)/B8(900)/B20(DD800)
- | LTE TDD Band: B38(2600)
- | DC-HSPA+/HSPA+/UMTS Band 1(2100)/2(1900)/5(850)/8(900);
- | GSM/GPRS/EDGE 850/900/1800/1900MHz
- | Equalizer
- | Receive diversity
- | LTE FDD downlink data service of up to 150Mbps/UL:50Mbps @20M BW cat4
- | LTE TDD downlink data service of up to 112Mbps/UL:10Mbps @20M BW cat4
- | DC-HSPA+ downlink data service of up to 42Mbps
- | 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
- | LTE/UMTS/GSM Short Message Service (SMS).
- | 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
- | Internal antenna
- | 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:	CH1E8278SM
Platform & Chipset:	Chipset:Balong V7R1 WiFi Chipset:BroadcomBCM43362

## 2.2 Hardware Specifications

Item	Specifications
Technical standard	<p>LTE Rel 9</p> <p>WCDMA Rel '99 plus Rel 5 HSDPA, Rel 6 HSUPA, Rel 7 HSPA+(cat 14), Rel 8 DC-HSPA+(cat 24)</p> <p>GSM/GPRS/EDGE</p> <p>WLAN: IEEE 802.11b/g/n</p>
Operating frequency	<p>LTE DD800MHz:</p> <p>832MHz~862MHz(Uplink)/791MHz~821MHz(Downlink)</p> <p>LTE 1800MHz:</p> <p>1710MHz~1785 MHz(Uplink)/1805MHz~1880MHz(Downlink)</p> <p>LTE 2600MHz:</p> <p>2500MHz~2570 MHz(Uplink)/2620MHz~2690MHz(Downlink)</p> <p>LTE 900MHz:</p> <p>880MHz~915 MHz(Uplink)/925MHz~960MHz(Downlink)</p> <p>WCDMA/HSPA+ 2100MHz:</p> <p>1920MHz~1980 MHz(Uplink)/2110MHz~2170MHz(Downlink)</p> <p>WCDMA/HSPA+ 1900MHz:</p> <p>1850 -1910 MHz(Uplink)/ 1930 -1990 MHz(Downlink)</p> <p>WCDMA/HSPA+ 900MHz:</p> <p>880 - 915 MHz(Uplink)/ 925 - 960 MHz(Downlink)</p> <p>WCDMA/HSPA+ 850MHz:</p> <p>824MHz~849MHz (Uplink) /869MHz~894MHz (Downlink)</p> <p>GSM/GPRS/EDGE 850MHz:</p> <p>824MHz~849MHz (Uplink) /869MHz~894MHz (Downlink)</p> <p>GSM/GPRS/EDGE 900MHz:</p> <p>880MHz~915MHz(Uplink)/925MHz~960 MHz(Downlink)</p> <p>GSM/GPRS/EDGE 1800MHz:</p> <p>1710MHz~1785MHz(Uplink)/1805MHz~ 1880MHz (Downlink)</p> <p>GSM/GPRS/EDGE 1900MHz:</p> <p>1850MHz~1910MHz(Uplink)/1930MHz~ 1990MHz(Downlink)</p> <p>WLAN: 2400MHz~2483.5MHz</p>
Memory capability	256MB Flash, 128MB Memory
Maximum transmitter power	<p>LTE: +23dBm (Power Class 3)</p> <p>UMTS: <math>\geq 24</math> (+1/-3) dBm</p> <p>GSM/GPRS 850/900MHz: +33dBm (Power Class 4)</p>

Item	Specifications
	GSM/GPRS 1800/1900MHz: +30dBm (Power Class 1)
	EDGE 850/900MHz: +27dBm (Power Class E2)
	EDGE 1800/1900MHz: +26dBm (Power Class E2)
	WLAN:
	802.11b: 11 ( +/ -3 ) dBm
Static receiver sensitivity	802.11g: 9 ( +/ -3 ) dBm
	802.11n: 8 ( +/ -3 ) dBm
	LTE: Compliant with 3GPP TS 36.101(R9)
	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 air interface speed	WLAN 802.11g: -65dBm@54Mbps
	WLAN 802.11n: -64dBm@65Mbps
	802.11b: up to 11Mbit/s
Maximum power consumption	802.11g: up to 54Mbit/s
	802.11n: supporting MCS0~MCS7, up to 72.2Mbit/s
Power supply	3.75W
External interfaces	4.75V-5.25V / 750mA
	USB 2.0 High Speed
	microSD Card Slot
	SIM card: standard 6-pin SIM card interface
LED	External antenna interface
Size	Indicates the status of the E8278
Weight	98mm ×32mm × 14.2mm
Temperature	<50g
Humidity	Operating: -10℃ to +40℃
	Storage: -20℃ to +70℃
	5% to 95%

## 2.3 Improvements in the Previous Version

Index	Case ID	Issue Description
Hardware Version		CH1E8278SM
Previous Version	Hardware Version	NA
NA		

## 2.4 Known Limitations and Issues

Index	Case ID	Issue Description
1		

# 3 Firmware

## 3.1 Version Description

Firmware Version: 21.261.67.03.405  
Baseline information Balong V7R1 C32

## 3.2 Improvement in the Previous Version

Index	Case ID	Issue Description
Firmware Version		21.261.67.03.405
Previous Version	Firmware Version	21.261.67.00.00
1	Requirement	Divide prepaid and postpaid SIM card, in order to dial with different APN
2	Requirement	Registering the network with ESM_Info_Transfer_Flag
3	Requirement	When it is the first time to use product and when receive the Text message from O2,send https request and get statistic informations