

Product name	Confidentiality level
B593s-22	CONFIDENTIAL
Product version	Total 9 pages
V1.2	

B593s-22TCPU-V200R001B270D25SP01C260

## Release Notes

V1.2

Prepared by	Guo xiaofei	Date	2016-12-13
Reviewed by	Li jinze	Date	2016-12-13
Approved by	Panlianggang	Date	2016-12-13



Huawei Technologies Co., Ltd.

All rights reserved

## Revision Record

<b>Date</b>	<b>Revision version</b>	<b>FW-WebUI/HiLink Version</b>	<b>Change Description</b>	<b>Author</b>
2013-7-16	V1.0	V200R001B180D20SP05C260	The 1 <sup>st</sup> version	xujun
2015-10-15	V1.1	V200R001B270D25SP00C260	The 2 <sup>nd</sup> version	Guo xiaofei
2016-12-13	V1.2	V200R001B270D25SP01C260	The 3 <sup>rd</sup> version	Guo xiaofei

# Table of Contents

1	Main Features .....	4
2	Hardware.....	4
2.1	Version Description .....	4
2.2	Hardware Specifications .....	4
2.3	Improvements in the Previous Version .....	6
2.4	Known Limitations and Issues .....	6
3	Firmware .....	6
3.1	Version Description .....	6
3.2	Firmware Specifications .....	6
3.3	Improvement in the Previous Version .....	8
3.4	Known Limitations and Issues .....	9
4	Software Vulnerabilities Fixes .....	9



# B593s-22TCPU-V200R001B270D25SP01C260 Release Notes V1.2

## 1 Main Features

The B593s-22 supports the following standards:

- Support network environments. The B593s-22 supports LTE FDD Band 1(2100MHz) /Band 3(1800MHz) /Band 7(2600MHz) /Band 8(900MHz)/Band 20(800MHz), LTE TDD Band38(2600MHz), UMTS FDD Band8(900 MHz)/Band 1(2100MHz), GSM 1900/1800/900/850 MHz .
- High speed experience. Supports maximum throughput of 135 Mbps in the downlink and 50 Mbps in the uplink.
- Built-in DHCP Server and NAT. Provides high-speed routing capability.
- Comprehensive and robust security services. Provides instant protection to block potential security risks and intrusion attempts.
- Supports Windows XP, Windows Vista, Windows 7, Linux, MAC. Compatible with Browser include Internet Explorer, Firefox, Chrome, Safari, Opera.
- Intuitionist and convenient Web-based management.
- Ultrathin and artful appearance.
- Built-in LTE and WLAN high gain antenna. Ensured performance and easy portability. It is optional to select an external antenna, which is to ensure the normal use when the signal strength is weak.
- User-friendly design of LED indicator. Easy to observe the status of equipment.

## 2 Hardware

### 2.1 Version Description

Hardware Version:	Ver.B
Platform & Chipset:	Hi6920

### 2.2 Hardware Specifications

Item	Specifications	
Technical Standard	WAN: LTE/UMTS	
	LAN: IEEE 802.3/802.3u	
	WLAN: IEEE 802.11b/g/n	
Operating Frequency	LTE: FDD 800/900/1800/2100/2600 MHz, TDD 2600 MHz	
	UMTS: 900/2100 MHz	
	WLAN: 2.401–2.483 GHz	
Maximum	LTE	FDD 800 MHz: 22.6 dBm



Transmitter Power		FDD 900 MHz: 22.6 dBm
		FDD 1800 MHz: 22.5 dBm
		FDD 2100 MHz: 22.4 dBm
		FDD 2600 MHz: 22.3 dBm
		TDD 2600 MHz: 22.3 dBm
	UMTS	900 MHz: 23.6dBm
		2100 MHz: 23.5dBm
	GSM	GSM 850: Power Class 4 31.6dBm
		GSM 900: Power Class 4 31.6dBm
		DCS 1800:Power Class 1 29.5dBm
		PCS 1900:Power Class 1 29.5dBm
	WLAN	802.11n: 13 dBm
		802.11g: 16 dBm
		802.11b: 16 dBm
Maximum Power Consumption	$\leq 11$ W (adapter powered)	
Memory	Flash 512 MB, DDR 256 MB	
External Interfaces	4 Ethernet interface	
	2 POTS interface	
	1 Power interface	
	1 USIM card interface	
	2 External antenna interface	
	1 USB interface	
	1 Reset button	
	1 WLAN button	
	1 WPS button	
	1 Power button	
Antenna	Built-in LTE/UMTS antenna	
	Built-out LTE/UMTS antenna (optional)	
	Built-in WLAN antenna	
Static Receiver Sensitivity	LTE	FDD 800 MHz: -94 dBm@10 MHz
		FDD 900 MHz: -94 dBm@10 MHz
		FDD 1800 MHz: -94 dBm@10 MHz
		FDD 2100 MHz: -97 dBm@10 MHz
		FDD 2600 MHz: -95 dBm@10 MHz
		TDD 2600 MHz: -97 dBm@10 MHz
	UMTS	900 MHz: $\leq -108.5$ dBm@3.84 MHz
		2100 MHz: $\leq -108.4$ dBm@3.84 MHz
	GSM	GSM850: $\leq -107.6$ dBm/200KHz
		GSM900: $\leq -107.6$ dBm/200KHz
		GSM1800: $\leq -107.5$ dBm/200KHz
		GSM1900: $\leq -107.5$ dBm/200KHz
	WLAN	802.11n: -64 dBm@65 Mbit/s
802.11g: -65 dBm@54 Mbit/s		
802.11b: -76 dBm@11 Mbit/s		
Power Supply	AC: 100–240 V, 50/60 Hz	
	DC: 12 V, 2A	



Dimensions (H x W x D)	176 mm x 190 mm x 35 mm
Weight	About 390 g(power adapter excluded)
Ambient Temperature	<ul style="list-style-type: none"> <li>Working temperature: 0°C to +40°C</li> <li>Storage temperature: -20°C to +70°C</li> </ul>
Humidity	10% to 95%

## 2.3 Improvements in the Previous Version

Index	Case ID	Issue Description
NA		

## 2.4 Known Limitations and Issues

Index	Case ID	Issue Description
NA		

# 3 Firmware

## 3.1 Version Description

Firmware Version: V200R001B270D25SP01C260  
 Baseline information [Hisilicon B270C35](#).  
 OS [Linux](#)

## 3.2 Firmware Specifications

Item	Description
Gateway	Router: Support the default routing (the routing address is 0.0.0.0).
	Support ARP
	Support DNS
	Support DDNS
	Support ICMP
	NAT: <ul style="list-style-type: none"> <li>Support NAT, NAPT (compliant with RFC2663, RFC3022 and RFC3027)</li> <li>Support fragment message identification for normal NAT</li> <li>Support NAT traverse of SIP</li> </ul>



Item	Description
	<p>DHCP Server:</p> <ul style="list-style-type: none"><li>• The default IP addresses of the DHCP server is from 192.168.1.1 to 192.168.1.254. The default gateway address is 192.168.1.1</li><li>• The default DHCP lease time is 24 hours</li><li>• The DHCP Server can be enabled or disabled</li><li>• The address pool of the DHCP server can be configured</li><li>• The lease time can be configured</li><li>• The IP address status can be displayed, such as the host name, MAC address, IP address, and remaining lease</li><li>• Support static IP reserve</li></ul>
USB Storage	• Support FTP
	• Support Samba
	• Support DLNA
Data service	<ul style="list-style-type: none"><li>• Downlink FDD LTE packet data service of up to 135 Mbit/s</li><li>• Uplink FDD LTE packet data service of up to 50 Mbit/s</li><li>• Downlink TDD LTE packet data service of up to 80 Mbit/s (configuration 1)</li><li>• Uplink TDD LTE packet data service of up to 20 Mbit/s (configuration 1)</li><li>• Downlink TDD LTE packet data service of up to 112 Mbit/s (configuration 2)</li><li>• Uplink TDD LTE packet data service of up to 10 Mbit/s (configuration 2)</li><li>• DC-HSPA+ downlink packet data service at a maximum transmission rate of 43.2 Mbit/s</li><li>• HSPA+ downlink packet data service at a maximum transmission rate of 21.6 Mbit/s</li><li>• HSPA downlink packet data service at a maximum transmission rate of 14.4 Mbit/s</li><li>• DC-HSPA+/HSPA+/HSPA uplink packet data service at a maximum transmission rate of 5.76 Mbit/s</li></ul>
LAN	10 Mbit/s and 100 Mbit/s auto-negotiation
	MDI/MDIX auto-sensing
	IEEE802.3/802.3u is compatible
WLAN	Broadcast and hide the SSID

Item	Description
	Authentication: <ul style="list-style-type: none"> <li>• Open System and shared key authentication</li> <li>• 64/128-digit WEP encryption</li> <li>• 256-digit WPA-PSK/ WPA2-PSK encryption</li> <li>• TKIP ciphering algorithm</li> <li>• AES ciphering algorithm</li> <li>• TKIP and AES ciphering algorithm synchronously</li> </ul> MAC address authentication: up to 8 MAC address items Ratio adjustment: <ul style="list-style-type: none"> <li>• Automatically</li> </ul> STA management: support limit of access users (up to 32 users)
Access Device Management	Manage access device
Upgrade	Auto http upgrade and local upgrade
SIM	PIN Management, SIM card Authentication
Dial-up	Support automatic, manual connect
Configuration import and export	Encryption backup current settings and restore the backup settings
SNTP	Support DST(Daylight Saving Time)
Maintenance	Export current diagnosis results and operation logs
System requirement	CPU: Pentium 500 MHz or above Memory: 128 MB RAM or above Hard disk: 50 MB free disk space OS: Windows XP/Windows Vista/ Windows 7/ Linux/Mac Display resolution: 800 × 600 or above (1024 × 768 is recommended) Internet Explorer: IE7.0,8.0/firefox3.6/safari5.0/opera10/chrome8 or above

### 3.3 Improvement in the Previous Version

Index	Features Description
1	<i>New requirement of network mode</i>
2	



### 3.4 Known Limitations and Issues

Index	Case ID	Issue Description
1	NA	

## 4 Software Vulnerabilities Fixes

Software/Module name	Version	CVE ID	Vulnerability Description	Solution
NA				Baseline already has finished developing with security issues, not relate to this one.