



# Technical Specification

## H9303 Media WiFi Router



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# 1 Product Overview


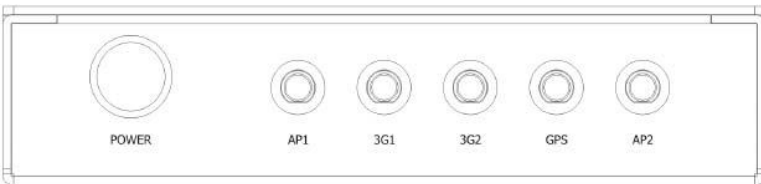
H9303 Media WiFi Router a high-performance WiFi hotspot product with built-in Solid State Disk (SSD) and can be managed by the Cloud Management Platform (Name: FreeWiFi Platform). As a Wi-Fi hotspot, H9303 3G/4G Wi-Fi routers will be installed in public transport such as city buses, coaches, tourist bus, subways, trains and some public places such as cafe, restaurant, station, terminal building and other places with wide Wi-Fi coverage range. After connected to the Wi-Fi hotspot, not only can users surf internet via 3G/4G, but also the clients can enjoy local movies, music, news and other attractive info stored in the local SSD.

The appearance of H9303 product is as show below.



## 2 Product Specification

Item	Description
Product Model	H9303
<b>Performance</b>	
CPU	Dual core 1GHz
RAM	DDR 1GB
Operating Systeem	Embedded Linux OS
Hard Disk	SSD

Item	Description
	(128G standard, optional capacity)
Cellular Network	WCDMA FDD LTE  B1/2/3/4/5/7/8/20
Ethernet	IEEE 802.3/ IEEE 802.3u 1*10/100Mb RJ45 LAN Port
<b>Panel &amp; Interface</b>	
Front Panel	 <ul style="list-style-type: none"> <li>➤ 1 RJ45 Ethernet port</li> <li>➤ 1 Debug port (RS232 protocol )</li> <li>➤ 1 USB 2.0(firmware upgrade,contents update,OS recovery)</li> <li>➤ 1 RESET button</li> <li>➤ 8 status indicator LEDs</li> </ul>
Rear Panel	 <ul style="list-style-type: none"> <li>➤ 5 antenna connectors (SMA) <ul style="list-style-type: none"> <li>■ 2 * 3G/4G connectors</li> <li>■ 2 * WiFi AP connectors (support MIMO)</li> <li>■ 1 * GPS connector</li> </ul> </li> <li>➤ 1 vehicular power connector(3 PIN aviation connector)</li> </ul>
Internal interface	<ul style="list-style-type: none"> <li>➤ SIM card slots (SIM2 reserved for extended 3G/4G)</li> <li>➤ 2 3G/4G modem interfaces (mini PCI-E, need to open the shell to install)</li> <li>➤ 1 AP module interface (PCI-E)</li> <li>➤ 1 SSD(solid state disk) interface (mSATA)</li> <li>➤ 1 GPS interface</li> </ul>
<b>Power</b>	
Input	DC 9~36V Support: high and low voltage protection (configurable), power on/off delay (configurable)
Consumption	<15 W (Signal 3G/4G modem and signal AP mode)

Item	Description
	Idle: 220mA@+24VDC 331mA@12VDC
	Single Cellular Module Communications: 389mA@+24VDC 751mA@12VDC
	Multiple Cellular Module Communications: <650mA@+24VDC
<b>WiFi Parameters</b>	
Standard	IEEE 802.11b/g/n/ac, MIMO(optional)
Frequency (Hz)	Support 2.4G and 5G
Encryption	WEP, WPA and WPA2 encryption
Mode	AP, Station mode
EIRP	< 28.9dbm
<b>Indicators</b>	
LED indicators	POWER, ALARM, RUN, AP, 3G1/4G1, 3G2/4G2, DISK, GPS
	ETH indicators(green & yellow)
<b>Mechanical</b>	
Housing	Aluminum alloy
Cooling	Fanless
Weight	0.6 kg (SSD included)
Dimension	207mm*142mm*33mm (Excluding antenna and blanket)
<b>Features</b>	
Security	P Filter, Domain Filter, MAC Filter, Black/white list

Item	Description
Web Portal	Static web page: Supports local static web page display
	Dynamic web page: PHP based dynamic web service (PHP5.5)
	Supports basic SQL Lite
	Local streaming media play: Supports customers watch the video locally ( Supports 50~60 concurrent access video stream @480P * 512kbps )
Operation	Supports AT, LCP, ICMP, flow detection, DHCP, SFTP(updating of hard disk contents), Bandwidth Control, URL Redirect
Location service	GPS location and real-time GPS data report
Self-check	Device Security self-check, OS Separation Architecture
Extension Development	Supports business secondary development based on open interface Supports customers to develop applications and upgrades to run independently
Device Management	Local or remote web browser
	CLI telnet command
	FreeWiFi cloud management platform
	SSH (optional)
<b>API</b>	
Software interface	<ul style="list-style-type: none"> <li>➤ Working temperature and working voltage interface of device</li> <li>➤ AP working state interface</li> <li>➤ GPS working state interface</li> <li>➤ 3G/4G working state interface</li> <li>➤ Power VCC, ACC switch control interface</li> <li>➤ User behavior statistics interface</li> <li>➤ Authentication jump interface</li> <li>➤ Statistical interface for user access behavior</li> <li>➤ Software and hard disk resource upgrade interface</li> <li>➤ Other extended APIs on demand</li> </ul>
<b>Others</b>	
Warranty	12 months
<b>Environment</b>	
Operating temperature	-20°C~+70°C
Storage	-40°C~+85°C

Item	Description
temperature	
Humidity	10% to 90% (non-condensing)
Max temperature gradient	20°C/hour
Electrical performance (static electricity, etc.)	In line with GB/T 17626.2-2006, JT/T 794-2011 B level


### 3 Panel indicators status


Indicator name	On	Off	Flash
POWER	Power on	Power off	/
ALARM	/	System is normal	Alarm occurs (can be second developed)
RUN	System is normal	System is not started	Reserved
AP	AP network is normal	AP network is not establish	Reserved
3G1	Dial-up success	No dial or dial-up fail	Fast flash: Dialing Slow flash: Access 2G network
3G2 (for modem 2)	Dial-up success	No dial or dial-up fail	Fast flash: Dialing Slow flash: Access 2G network
DISK	/	Hard disk is no read or write	Hard disk is in read or write status
GPS	Receive valid GPS information	No GPS signal	Reserved





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