High Bandwidth MESH UHF Wireless Transmission System

ST9601MS is a dual-band high bandwidth network wireless device, which can realize high-performance dedicated wireless network, has strong non-line-of-sight transmission capability, and supports mobile phones, computers and other terminal devices to access the network through 2.4GHz WiFi. At the same time, it can support GPS and it has specially design for portable applications.

Main Features

- Frequency 570-1443Mhz
- Support 2*2 MIMO
- RF Power 1/2/10/20watts for option
- Frequency bandwidth: 5/10/20Mhz
- On board 200mW 2.4GHz WiFi
- Support GPS

Technical Parameters

Working Frequency	570-1443MHz	**Bootloader**	U-boot
	2412-2462MHz(Wifi)	**Linux**	3.18.19
	1559-1577MHz(GPS)	**Wired Network**	IP address configurable
Bandwidth	5/10/20MHz		Subnet Mask Configurable
	20MHz(Wifi)	**Wireless Network**	Working Frequency Adjustable
RF Power	0.5-1W		Bandwidth Adjustable
	0.2W(Wifi)		RF Power Adjustable
Receive Sensitivity	-92dBm		Support Adhoc
	-90dBm(Wifi)		ESSID/BSSID Configurable
Duplex Mode	TDD		Supports adaptive rate and fixed rate modes
Modulation	BPSK/QPSK/16-QAM/64-QAM		
Diversity Mode	Transmitting and receiving diversity		
Upstream and downstream bandwidth	Two-way bandwidth up to 80Mbps		Support Distance Optimization
	40Mbps(Wifi)		Support RTS/CTS Setting
Antenna	2*N type Antenna Interface		Connection Status Display
	1*Wifi SMA Antenna Interface	**Wifi**	Working Frequency Adjustable
	1*GPS SMA Antenna Interface		RF Power Adjustable
Ethernet	1*100Mbps Ethernet Interface		Support AP mode
Serial Interface	Support RS232 (Bit rate 9600-115200bps Adjustable)		

Indicator	1*System States Indicator Light		ESSID Configurable
	1*Ethernet Status Indicator Light		Supports adaptive rate mode
	1*Wifi States Indicator Light		Support WMM/802.11e QoS
	3*Network Signal Strength Indicator Light		Support Distance Optimization
Key	1*Reset Button		Support RTS/CTS Setting
Power	DC9-28V		Support MAC address filtering
Power Consumption	**DC12V** Standby Current 320mA Ad Hoc Network Current 460mA Data Transmission Current 1.2A		Connection Status Display
Battery	12V2600mAh		WPA/WPA2/WEP Encryption
Battery Endurance	2hours		Hidden ESSID
Dimension	141.5mm*88mm*30mm		Support Network transparent transmission GPS original positioning data
Temperature	Storage: -30℃~+70℃		Support web page management
	Working: -20℃~+65℃		Support SSH security management
Weight	860g(Including Battery)	Management	Import/export configuration information
Serial Port	1*Serial Port(On request)		Restore factory configuration
Moving Speed	＞200km/h		Update firmware online