XTEND INDONESIA
GLOBAL LEADING AI TECH COMPANY

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High Bandwidth

# MESH UHF

## ST9601MS

- Frequency 570~590MHz/1400~1420MHz ~ Support 2x2 MIMO
- RF Power 1/2/10/20 watts for option
- Frequency bandwidth: 5/10/20Mhz
- On board 200mW 2.4GHz WiFi
- Support GPS
- Support moving speed >200km/h

Multi-hop IP mesh is combined with mobile MESH and IP communication unit, directly delivering HD video, data, and VoIP without any extra infrastructure. Multi-hop mesh performs well in point to point or point to multi-point (one to or one to many) communication, centerless ad hoc network, and multi-hop communication. 5/10/20MHz bandwidth to choose, strong anti-interference. Small and light, multi-hop mesh is suitable for hand carry missions, robotics, and mobile vehicles no matter in aerial, ground, seas.

# Specification

| General | |
|---|---|
| Duplex Mode | TDD |
| Transmit Power | 30dBm (1w) |
| Bandwidth | 5/10/20MHz |
| NLOS Ragne | 1km |
| High Light | WiFi mesh network equipment,<br>mesh wifi equipment |
| Frequency Range | 570~590MHz/1400~1420MHz |
| Waterproof | IP66 |
| Special Function | GPS, Multi-Hops, Roaming Function |
| Operating Voltage | DC9-28V |
| Working Frequency | 570~590MHz/1400~1420MHz<br>500~1400MHz(On request)<br>2412-2462MHz(Wifi)<br>1559-1577MHz(GPS) |
| RF Power | 1W<br>0.2W(Wifi) |
| Receive Sensitivity | -92dBm<br>-90dBm(Wifi) |
| Bootloader | U-boot |
| Linux | 3.18.19 |
| Wired Network | IP address configurable<br>Subnet Mask Configurable |
| Upstream and downstream bandwidth | Two-way bandwidth up to 80Mbps<br>40Mbps(Wifi) |
| Wireless Network | Working Frequency Adjustable<br>Bandwidth Adjustable<br>RF Power Adjustable<br>Support Adhoc<br>ESSID/BSSID Configurable<br>Adaptive rate and fixed-rate modes<br>Support Distance Optimization<br>Support RTS/CTS Setting<br>Connection Status Display |
| Antenna | 2x N-type Antenna Interface<br>1x Wifi SMA Antenna Interface<br>1x GPS SMA Antenna Interface |
| Ethernet | 1x 100Mbps Ethernet Interface |
| Serial Interface | Support RS232<br>(Bit rate 9600-115200bps Adjustable) |
| Power Consumption | DC12V<br>Standby Current 320mA<br>Ad Hoc Network Current 460mA<br>Data Transmission Current 1.2A |
| Indicator | 1x System States Indicator Light<br>1x Ethernet Status Indicator Light<br>1x Wifi States Indicator Light<br>3x Network Signal Strength Indicator Light |
| Key | 1x Reset Button |
| Power | DC9-28V |
| Battery | 12V2600mAh |
| Encryption | AES128 |
| Battery Endurance | 2 hours |
| Dimension | 141.5mm x 88mm x 30mm |
| Temperature | Storage: -30°C~+90°C<br>Working: -20°C~+65°C |
| Weight | 820g (Including Battery) |
| Moving Speed | ＞200km/h |
| Wireless Network | Bandwidth Adjustable<br>RF Power Adjustable<br>Support Adhoc<br>ESSID/BSSID Configurable<br>Adaptive rate and fixed-rate modes<br>Support Distance Optimization<br>Support RTS/CTS Setting<br>Connection Status Display |
| WiFi | Working Frequency Adjustable<br>RF Power Adjustable<br>Support AP mode<br>ESSID Configurable<br>Supports adaptive rate mode<br>Support WMM/802.11e QoS<br>Support Distance Optimization<br>Support RTS/CTS Setting<br>Support MAC address filtering<br>Connection Status Display<br>WPA/WPA2/WEP Encryption<br>Hidden ESSID<br>Support Network transparent transmission -<br>GPS original positioning data<br>Support web page management |
| Management | Support SSH security management<br>Import/export configuration information<br>Restore factory configuration<br>Update firmware online |