Wideband IP MESH AD hoc

Typical Topology

Our company’s wireless wideband Ad-hoc network radio station line are: middle distance MESH (2w / 4w / 5w vehicle carrying/ relay station), long-distance MESH equipment (8w / 10w / 20w power ad-hoc network base station), portable handheld or individual unmanned aerial vehicle (UAV) MESH equipment (1w / 2w / 4w soldier radio /airborne embedded radio), and to realize the seamless connection between products, to provide clients with stereo comprehensive solution; also can OEM different products for large customers in order to realize the differentiation competition.

Product characteristics

- Wireless private network, do not rely on public network, IP transmission
- Fast access, self - organization, self – healing
- Antenna diversity, high receiving sensitivity
- Multi-carrier COFDM, non-line-of-sight transmission
- Throughput supports up to 100Mbps
- Mobile portable, zero configuration rapid deployment
- Single frequency support more than 32 nodes networking
- Anti - interference and anti multi path fading
MESH-WR series

Normal version, super stability/ high cost-effective

- Frequency conversion scheme based on Qualcomm chip, MESH protocol deep optimization, intelligent routing, OFDM, 1T1R/MIMO, fixed frequency networking, up to 32 nodes, high speed, long distance, frequency can be customized.
- The peak rate is 80Mbps@20MHz, the air-to-air sight distance of full-duplex VOIP voice intercom has been measured for 50km, and the frequency can be customized within the range of 300~1500MHz.

MESH-HR/DR Series

High end version, HR/DR fixed frequency radio STATION

- Based on FPGA+AD9361’s SDR platform, dynamic TMDA, intelligent routing, COFDM, 1T1R/1T2R, fixed frequency networking, up to 32 nodes, middle speed, super long distance, frequency can be customized.
- The air-to-air sight distance has been measured for 160km, peak rate is 25Mbps@10MHz, 55Mbps@20MHz, 100Mbps@40MHz, the frequency can be customized within the range of 70~6000MHz.

MESH-TR/AR Series

- Hopping version, TR hopping/AR self-selected frequency
- Based on FPGA+AD9361’s SDR platform, dynamic TMDA, intelligent routing, COFDM, 1T1R/2T2R, auto adjusted frequency selection/ hopping networking, up to 32 nodes, 1000 hopping speed, middle speed, super long distance, frequency can be customized.
- The air-to-air sight distance has been measured for 200km~300km, peak rate is 105Mbps@40MHz, the frequency can be customized within the range of 70~6000MHz.
MESH-WR Series AD hoc network radio station

Multi-carrier OFDM+1T1R/MIMO technology, IEEE802.11, intelligent routing, MESH protocol deep optimization, fixed-frequency networking, single-frequency networking scale of 32 nodes, peak rate up to 80Mbps, IP passthrough, serial passthrough, VOIP voice conference, AES122/256 encryption, air-to-air sight distance up to 50km, software, frequency, power, interface can be customized /OEM

Key feature:
- network scale: single Frequency 32 nodes, clustering network 128 nodes
- Frequency: 300~1500MHz customization, normal 560~600MHz/1415~1465MHz
- Waveform: OFDM+MIMO
- Carrier modulation: BPSK/QPSK/16QAM/64QAM self-adaptation
- Router protocol: 2 layers smart routing (active/on demand)
- Bandwidth: 5/10/20MHz, 5MHz step adjustable
- Transmission speed: peak 40Mbps (1T1R), peak 80Mbps (MIMO)
- Rx sensitivity: -98dBm@ 5MHz
- Tx power: 30/33/37dBm, 1dBm step adjustable
- Communication distance: 1-15km (ground-ground sight distance), 20-50km (ground-air/air-air sight distance)
- wire interface: 10/100M Ethernet*2, RS232 serial, USB customizable
- wireless interface: 2.4GHz WiFi AP
- Video input: HDMI, others customizable
- Positioning: GPS/BD
- Voice communication: Full duplex VOIP Voice conferencing
- Power supply: 24~30V/2A
- Working temperature: -40~+75℃
- Device type: WR01 Individual handheld, WR02 vehicle carried, WR03 Airborne embedded
<table>
<thead>
<tr>
<th>Scene</th>
<th>Type</th>
<th>Frequency (MHz)</th>
<th>Pout (dBm)</th>
<th>Peak speed (Mbps)</th>
<th>Air-air distance (Km)</th>
<th>Dimension (mm)</th>
<th>Weight (Kg)</th>
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<tbody>
<tr>
<td><strong>MESH-WR01 handheld/portable radio</strong></td>
<td>WR01-580-1W(1T1R)</td>
<td>560<del>600/512</del>582</td>
<td>30</td>
<td>40</td>
<td>1-15</td>
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<td>WR01-1400-1W(1T1R)</td>
<td>1415~1465</td>
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<td>WR02-1400-5W(1T1R)</td>
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<td>40</td>
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<td>WR02-1400-2W(MIMO)</td>
<td>1415~1465</td>
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<td>80</td>
<td>20-50</td>
<td>145<em>220</em>60</td>
<td>2.7</td>
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<tr>
<td><strong>MESH-WR03 Airborne embedded/image data integration</strong></td>
<td>WR03-580-1W(1T1R)</td>
<td>560<del>600/512</del>582</td>
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<td>40</td>
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<td>WR03-1400-1W(1T1R)</td>
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<td>30</td>
<td>40</td>
<td>8-15</td>
<td>78.5<em>123</em>23</td>
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<td>20-30</td>
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</table>
MESH-WR series product

Based on different application scenarios, we offers a variety of products for users to use, the current line of products can provide portable handheld or individual unmanned aerial vehicle (UAV) MESH equipment, car, or knapsack, vessel mounted rack type MESH and MESH devices, between different products realize seamless docking ad-hoc network, providing customers with stereo comprehensive solutions, also can customize for OEM customers in the industry in order to realize the different forms of product differentiation competition.

1W/2W Individual handheld radio/ aero plane embedded
image data integrated radio/module

2W/5W/8W Vehicle-borne station/repeater base station
/1U rack-mounted shipboard station
MESH-WR01-1W Individual station (single antenna)

The individual handheld ad-hoc network stations, transmission frequency range from 300M to 1.5G customizable, using new generation multi hopping ad-hoc network protocol radio technology, has the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission. With built-in lithium battery, small size and compact design, it can be used as a user's handheld or wearable device with the maximum transmission power of 1W, which can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for IP data services such as voice, message and video

Key feature:
* Network scale: single frequency up to 32 nodes;
* Frequency: 560~600/1415~1465MHz optional, 5MHz step adjustable;
* Tx power: single channel 30dbm (1W), 1dBm step adjustable;
* Bandwidth: 5 / 10 / 20 MHz;
* Waveform: OFDM;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
* Rx sensitivity: -96dBm @ 5MHz;
* Communication range: 8~15km (ground to air/air to air), 0.8~5km (ground to ground);
* Communication speed: 1~40Mbps (self-adaption);
* Transmission time delay: single hopping average 3ms@10MHz;
* Multi hopping capability: short message up to 15 hops, voice up to 7 hops, video up to 5 hops;
* Movement speed: support 200+Km/H high speed movement;
* Start time: 45 seconds;
* Network connection speed: < 1 second;
* Data interface: Ethernet x 2, RS232 x 1, Optional USBx1;
* Network extension: WIFI AP, 4G router* (*on demand);
* Video extension: video coder HDMI/SDI/CVBS* (*on demand);
* Positioning: GPS/BD;
* Voice communication: IP voice conference (Full duplex voice call or PTT intercom);
* Power supply: 14~28V/2A;
* Power consumption: 4~12W;
* Working hours: 4~6 hours (Integrated removable battery);
* Level of protection: IP65;
* Operating temperature: -40~+75℃;
* External dimension: 78 * 210 * 33 mm;
* Total weight: 700 g (exclude antenna);
MESH-WR01-2W Individual station (MIMO)

The individual handheld ad-hoc network stations, transmission frequency range from 560-600MHz /1.4GHz customizable, using new generation multi hop ad-hoc network protocol radio technology, has the ability to resist the complex channel environment, and realizes the centralization-free co-frequency AD hoc network broadband service transmission between mobile points and fixed points such as individual soldiers, vehicles and unmanned aerial vehicles in complex scenes. Removable built-in lithium battery, compact design, has the maximum transmitted power of 2W, meet user's requirement of setting up private network rapidly in emergency situations, for the user's voice, news, video and other IP data service provides stable transmission channel.

Key feature:

* Network scale: single frequency up to 32 nodes:
  * frequency: 560~600/1415~1465MHz optional. 5MHz step adjustable;
  * Tx power: dual-channel 30/33dbm (1W/2W), 1dBm step adjustable;
  * bandwidth: 5 / 10 / 20 MHz;
  * waveform: OFDM + MIMO;
  * Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
  * Rx sensitivity: -98dBm @ 5MHz;
  * communication range: 20~30km (ground to air/air to air) 1~10km (ground to ground);
  * communication speed: 1~80Mbps (self-adaption);
  * transmission time delay: single hopping3ms@10MHz;
  * multi hopping capability: short message up to15 hopping, voice up to7 hopping, video up to5 hopping and above ;
  * movement speed: support 200+Km/H high speed movement;
  * start time: 45second;
  * network connection speed: <1second;
  * data interface: Ethernet x 2, RS232 x 1, OptionalUSBx1;
  * network extension: WIFI AP, 4G router* (**on demand**);
  * Video extension: Video coder HDMI/SDI/CVBS* (**on demand**);
  * positioning: GPS/BD;
  * voice communication: IP voice conference (**Full duplex voice call or PTT intercom**);
  * power supply: 14~28V/2A;
  * power consumption: 5~20W;
  * working hours: 5~8hours (**Integrated removable battery**);
  * level of protection: IP65;
  * working Temperature: -40~+75℃;
  * size: 85* 230 * 35 mm;
  * total weight: 915g (**exclude antenna**);
MESH-WR02-2W vehicle/back carried station (MIMO)

The vehicle type on ad-hoc network station, firing frequency range of 300 m and 1.5G can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and real now complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) between the fixed point without center frequency ad-hoc network broadband transmission. The device itself is built with a large capacity lithium battery, which is compact in design and has the maximum transmitting power of 2W. It can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for users' IP data services such as voice, message and video.

Key feature:
*Network scale: single frequency up to 32 nodes;
*frequency: 1415~1465MHz, 5MHz step adjustable;
*Tx power: dual channel33dbm（2W）, 1dBm step adjustable;
*bandwidth: 5 / 10 / 20 MHz;
*waveform: OFDM + MIMO;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -98dBm @ 5MHz;
*communication range: 20~30km（ground to air/air to air）1.5~10km（ground to ground）
*communication speed: 1~80Mbps (self-adaption);
*transmission time delay: single hopping average3ms@10MHz;
*multi hopping capability: short message up to15 hopping, voice up to7 hopping, video up to>5 hopping
*movement speed: support 200+Km/H high speed movement;
*start time: 45 seconds
*network connection speed: < 1second;
*data interface: Ethernet，RS232，Optional USB;
*network extension: WIFI AP hot spot;
*Video extension: Video coder HDMI;
*positioning: GPS/BD
*voice communication: IP voice conference（Full duplex voice call or PTT intercom）
*power supply: 24~30V/2A;
*power consumption: 8~40W;
*working hours: 6~8hours（Integrated removable battery）;
*level of protection: IP66;
*working Temperature: -40~+75℃;
*size: 145 * 220 * 60mm;
*total weight: 2700g（exclude antenna）;
MESH-WR02-5W vehicle/back carried station (single antenna)

The vehicle type on ad-hoc network station, firing frequency range of 300 m and 1.5 G can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and real now complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) between the fixed point without center frequency ad-hoc network broadband transmission. The device itself is built with a large capacity lithium battery and has a maximum transmitting power of 5W (single antenna), which can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for users' IP data services such as voice, message and video.

Key feature:
*Network scale: single frequency up to 32 nodes;
*frequency: 560~600/1415~1465MHz optional. 5MHz step adjustable;
*Tx power: single channel37dbm（5W），1dBm step adjustable;
*bandwidth: 5 / 10 / 20 MHz;
*waveform: OFDM;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM（self-adaption）;
*Rx sensitivity: -96dBm @ 5MHz;
*communication range: 20~30km（ground to air/air to air）, 1.5~10km（ground to ground）; related to antenna height
*communication speed: 1~40Mbps（self-adaption）;
*transmission time delay: single hopping3ms@10MHz;
*multi hopping capability: short message up to15 hopping、voice up to7 hopping，video up to 5 hopping;
*movement speed: support 200+Km/H high speed movement;
*start time: 45second;
*network connection speed: <1second;
*data interface: Ethernet x 2，RS232 x 1，OptionalUSBx1;
*network extension: WIFI AP ,4G router*（*on demand）;
*Video extension: Video coder HDMI/SDI/CVBS*（*on demand）;
*positioning: GPS/BD;
*voice communication: IP voice conference（Full duplex voice call or PTT intercom）;
*power supply: 24~28V/2A;
*power consumption: 8~30W;
*working hours: 6~8hours（Integrated removable battery）;
*level of protection: IP66;
*working Temperature: -40~+75℃;
*size: 145 * 220 * 60mm;
*total weight: 2700g（exclude antenna）;
MESH-WR03-1W airborne radio station (8-15Km)

The airborne AD hoc network radio can be customized with the transmitting frequency range of 340M to 1.5g, realizing the centralized-frequency broadband service transmission between individual soldiers, vehicles, UAV and other mobile points and fixed points in complex scenes. With the maximum transmission power of 1W, it can meet the needs of users in emergency situations to quickly establish a private network, and provide users with a stable transmission channel for voice, message, video and other IP data services.

Key feature:
*Network scale: single frequency up to 32 nodes;
*frequency: 560~600/1415~1465MHz, 5MHz step adjustable;
*Tx power: single channel max 30dbm (1W), 1dBm step adjustable;
*bandwidth: 5 / 10 / 20 MHz;
*waveform: OFDM;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -96dBm @ 5MHz;
*communication range: 8~15km (air to air);
*communication speed: 1~40Mbps (self-adaption);
*transmission time delay: single hopping3ms@10MHz;
*multi-hopping capability: short message up to 15 hopping, voice up to 7 hopping, video up to 5 hopping;
*movement speed: support 200+Km/H high speed movement;
*start time: 50second;
*network connection speed: <1second;
*data interface: Ethernet x 2, RS232 x 1, OptionalUSBx1;
*network extension: WIF! AP hot spot;
*Video extension: Video coder HDMI/SDI/CVBS* (*on demand*);
*positioning: GPS/BD * (*on demand*);
*power supply: 14~28V/1A;
*power consumption: 4~12W;
*working Temperature: -40~+75℃;
*size: 78.5*123*23 mm;
*total weight: 280g (exclude antenna);
MESH-WR03-MIMO airborne module (20Km)

This airborne AD hoc network module has a transmitting frequency range of 1415-1465 MHZ. It adopts the radio technology of the new-generation multi-hop AD hoc network protocol and is capable of counteracting the complex channel environment, so as to realize the wide-band service transmission of no-center same frequency AD hoc network between mobile points and fixed points such as individual soldiers, vehicles and UAV in complex scenes. With the maximum transmitting power of 2W, it satisfies users to quickly establish a private network in emergency situations, and provides a stable transmission channel for users’ IP data services such as voice, message and video.

Key feature:
* Network scale: single frequency up to 32 nodes;
* frequency: 1415-1465MHz, 5MHz step adjustable;
* Tx power: dual channel max 33dbm (2W), 1dBm step adjustable;
* bandwidth: 5 / 10 / 20 MHz;
* waveform: OFDM + MIMO;
* Carrier modulation: BPSK/ QPSK /16QAM /64QAM (self-adaption);
* Rx sensitivity: -98dBm @5MHz;
* communication range: 15~20km (ground to air/air to air);
* communication speed: 1~60Mbps (self-adaption);
* transmission time delay: single hopping3ms@10MHz;
* multi hopping capability: short message up to15 hopping, voice up to7 hopping, video up to5 hopping and above;
* movement speed: support 200+Km/H high speed movement;
* start time: 45 second;
* network connection speed: <1 second;
* data interface: Ethernet x2, TTL x1, USBx1;
* power supply: 14~28V/1A;
* power consumption: 5~20W;
* level of protection: IP65;
* working Temperature: -40~+75℃;
* size: 72*104*18mm (cigarette box size);
* total weight: 220g new version module;
MESH-WR03-2W airborne radio station (20-30Km)

The airborne type, ad-hoc network radio transmitting frequency range of 340M and 1.5G can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission. Have the biggest 2w transmission power, meet user set up private network rapidly in emergency situations, for the user's voice, news, video and other IP data service provides stable transmission channel.

Key feature:
*Network scale: single frequency up to 32 nodes;*
*frequency: 560~600/1415~1465MHz, 5MHz step adjustable;*
*Tx power: dual channel max 30/33dbm (1W/2W), 1dBm step adjustable;*
*bandwidth: 5 / 10 / 20 MHz;*
*waveform: OFDM + MIMO;*
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);*
*Rx sensitivity: -98dBm @ 5MHz;*
*communication range: 20~30km (ground to air/air to air);*
*communication speed: 1~80Mbps (self-adaption);*
*transmission time delay: single hopping 3ms@10MHz;*
*multi hopping capability: short message up to 15 hopping, voice up to 7 hopping, video up to 5 hopping and above;*
*movement speed: support 200+Km/H high speed movement;*
*start time: 45second;*
*network connection speed: <1second;*
*data interface: Ethernet x 2, RS232 x 1, OptionalUSBx1;*
*network extension: WIFI AP hot spot;*
*Video extension: Video coder HDMI/SDI/TVBS* (on demand;)
*positioning: GPS/BD;*
*power supply: 14~28V/1A;*
*power consumption: 5~20W;*
*level of protection: IP65;*
*working Temperature: -40~+75℃;*
*size: 85 * 139 * 35 mm ;
*total weight: 520 g ;
MESH-DR/HR Series AD hoc network radio station

choose SDR scheme which based on FPGA + AD9361, multicarrier COFDM technology, dynamic TDMA, OLSR intelligent routing, fixed frequency networking, network size 32 nodes, DR peak rate can be up to 25 MBPS, HR peak rate up to 100 Mbps, IP passthrough, serial port passthrough, VOIP voice conference, AES128/256 encryption, anti-multipath interference capability is strong, stable and rable transmission, air to air up to 160 kilometers, software, frequency, power, interface are Optional/OEM.

Key feature:

- Network scale: single frequency max support 16/32 nodes, cluster network up to 128 nodes;
- Frequency: 340~470/450~600/1150~1500MHz,70~6000MHz Optional;
- Tx power: 33/36/40/43dbm（2W/4W/10W/20W）1dBm step adjustable;
- Bandwidth: 2.5 / 5 / 10 MHz （20 MHz/40 MHz bandwidth Optional);
- Waveform: TD-COFDM + 1T2R /2T2R ;
- Carrier modulation: BPSK/QPSK/16QAM/64QAM（self-adaption）;
- Rx sensitivity: -100dBm @2. 5MHz;
- Communication range: 50~160km（ground to air/air to air）2~10km（ground to ground）
- Communication speed:
  - DR station:1~25Mbps /HR station:1~100Mbps（self-adaption）;
  - Start time: 6 seconds; network connection speed: <1 second;
  - Data interface: Ethernet x 2, RS232 x 2, RS485 x 1;
  - Network extension: WIFI AP hot spot 4G LTE（*on demand）;
  - Video extension: Video coder HDMI SDI/CVBS（*on demand）;
  - Positioning: GPS/BD（*on demand）;
- Voice communication: VOIP voice conference
- Power supply: 24~30V/2A; power consumption: 6~15W@2W, 10~40W@10W;
<table>
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<tr>
<th>Scene</th>
<th>Type</th>
<th>Frequency (MHz)</th>
<th>Pout (dBm)</th>
<th>Peak speed (Mbps)</th>
<th>Air-air distance (Km)</th>
<th>Dimension (mm)</th>
<th>Weight (Kg)</th>
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<td>HR01-1400-2W</td>
<td>1000-1500</td>
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<td>25</td>
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<td>185 * 220 * 68</td>
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MESH-DR/HR series product

Based on different application scenarios, form offers a variety of products for users to use, the current line of products can provide portable handheld or individual unmanned aerial vehicle (UAV) MESH equipment, automotive/knapsack, ship frame type MESH and MESH devices, form between different products and achieve seamless docking ad-hoc network, providing customers with stereo comprehensive solutions, also can customize for OEM customers in the industry in order to realize the different forms of product differentiation competition.

2W/4W/10W Individual handheld radio/ aero plane embedded

image data integrated radio station

2W/4W/10W Vehicle-borne station/repeater base station

/ rack-mounted shipborne station
MESH-HR01-2W Individual station

The individual handheld ad-hoc network stations, communication frequency range is 70 ~ 6000 MHZ can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) between the fixed point of ad-hoc network has no center broadband transmission. Integrated large capacity removable lithium battery, with a 2W transmission power rate, to meet users in emergency situations to quickly establish a dedicated communication network, voice, message, video and other IP data services to provide a stable transmission channel

Key feature:
* Network scale: single frequency up to 32 nodes;
* Frequency: normally 320-470M/400-650M/1-1.5GHz optional, 1MHz step adjustable, 70~6000MHz Optional;
* Tx power: dual channel max 33dBm（2W），1dBm step adjustable;
* Bandwidth: 2.5 / 5 / 10 MHz;
* Waveform: TDD-OFDM + 2T2R;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM（self-adaption）;
* Rx sensitivity: -100dBm@2.5MHz;
* Communication range: 15~30km（ground to air）, 1.5~10km（ground to ground）;
* Communication speed: 1~25Mbps（self-adaption）;
* Transmission time delay: single hopping 7ms @2.5MHz;
* Multi hopping capability: short message up to 15 hopping, voice up to 10 hopping, video up to 8 hopping;
* Movement speed: support 2000+Km/H high speed movement;
* Start time: 27 second;
* Network connection speed: <1second;
* Data interface: Ethernet x 1, RS232 x 1;
* Network extension: WIFI AP hot spot, 4G router*（*on demand）;
* Video extension: Video coder HDMI SDI/CVBS*（*on demand）;
* Positioning: GPS/BD*（on demand）;
* Voice communication: VOIP voice conference（Full duplex voice call or PTT intercom）;
* Power supply: 9~15V/1A;
* Power consumption: 4~8W@2W, dual channel;
* Working hours: 6hours（Integrated removable battery）
* Working temperature: -40~+65℃;
* Size: 230 * 80 * 38 mm;
* Total weight: 945g;
* Level of protection: IP66
MESH-DR02-2W vehicle/back carried station

The vehicle type/bear ad-hoc network station, firing frequency range is 70 ~ 6000 MHZ can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point of the ad-hoc network broadband transmission. Device itself built-in high capacity lithium battery, compact design, has the maximum transmitted power of 2 W, meet user set up private network rapidly in emergency situations, for the user's voice, news, video and other IP data service provides stable transmission channel.

Key feature:
*Network scale:  single frequency max support 32 nodes;
*frequency: 340~470/450~600/1150~1500MHz optional, 125KHz step adjustable, 70~600MHz Optional;
*Tx power: 33dbm (2W), 1dBm step adjustable;
*bandwidth: 1.25 / 2.5 / 5 / 10 MHz;
*waveform: TDD-COFDM + 1T2R ;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -98dBm @2.5MHz;
*communication range: 50~80km (ground to air), 2~10km (ground to ground), related to antenna height;
*communication speed: 1~25Mbps (self-adaption);
*transmission time delay: single hopping 8ms@2.5MHz;
*multi hopping capability: short message up to 15 hopping, voice up to 7 hopping, video up to 5 hopping;
*movement speed: support 300+Km/H high speed movement;
*start time: 6second;
*network connection speed: <1 second;
*data interface: Ethernet x 2, RS232 x 2, RS485 x 1;
*network extension: WIFI AP, 4G router* (on demand);
*Video extension: Video coder HDMI/SDI/CVBS* (on demand);
*positioning: GPS/BD (on demand);
*power supply: 24~30V/2A;
*power consumption: 6~15W@2W, 10~40W@5W;
*working hours: 6~8hours (Integrated removable battery);
*working Temperature: -20~+65℃;
*size: 145 * 220 * 60mm;
*total weight: 3000 g;
MESH-DR02-10W vehicle/back carried station

The vehicle type/bear ad-hoc network station, firing frequency range is 70 ~ 6000 MHZ can be customized, used a new generation of more jump ad-hoc network protocol of wireless technology, has the complex channel environment can force, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission. The device itself is built with a large capacity lithium battery, with a compact design and a maximum transmission power of 10W, which can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for IP data services such as voice, message and video.

Key feature:
*Network scale: single frequency max support 32 nodes;
*frequency: 340~470/450~600/1150~1500MHz optional, 125KHz step adjustable;
* Tx power: 40dBm (10W), 1dBm step adjustable;
*bandwidth: 1.25/2.5/5/10 MHz;
*waveform: TDD-COFDM + 1T2R;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -98dBm @2.5MHz;
*communication range: 100~120km (ground to air), 15~20km (ground to ground), related to antenna height;
*communication speed: 1~25Mbps (self-adaption);
*transmission time delay: single hopping 8ms@2.5MHz;
*multi hopping capability: short message up to 15 hopping, voice up to 7 hopping, video up to 5 hopping;
*movement speed: support 300+Km/H high speed movement;
*start time: 6 second;
*network connection speed: <1second;
*data interface: Ethernet x 2, RS232 x 2, RS485 x 1;
*network extension: WIFI AP, 4G router* (on demand);
*Video extension: Video coder HDMI/SDI/CVBS* (on demand);
*positioning: GPS/BD* (on demand);
*power supply: 24~30V/2A;
*power consumption: 6~15W@2W, 10~40W@5W;
*working hours: 6~8hours (Integrated removable battery);
*working Temperature: -20~+65℃;
*size: 186 * 265 * 60mm;
*total weight: 4560 g;
MESH-HR02-4W vehicle/back carried station

The vehicle type/bear ad-hoc network station, firing frequency range is 70 ~ 6000 MHZ can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission. The device itself is built with large capacity lithium battery and compact design. With single channel 2W and dual channel 4W transmission power, it can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for users’ IP data services such as voice, message and video

Key feature:
*Network scale: single frequency up to 32 nodes;
* frequency: 320-470M/400-650M/1-1.5G optional, 1MHz step adjustable;
* Tx power: 36dbm (4W), 1dBm step adjustable, Power is Optional;
* frequency: 2.5 / 5 / 10 / 20*MHz (*20MHz optional);
* waveform: TDD-COFDM + 2T2R;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
* Rx sensitivity: -100dBm@2. 5MHz;
* communication range: up to 120km (air to air) up to 20km (ground to ground);
* communication speed: 1~56Mbps (self-adaption);
* transmission time delay: single hopping 7ms@2.5MHz;
* multi hopping capability: short message up to15 hopping, voice up to 10 hopping, video up to 8 hopping;
* movement speed: support 2000+Km/H high speed movement;
* start time: 27second;
* network connection speed: <1second;
* data interface: Ethernet x2, RS232 x3, USBx1;
* network extension: WIFI AP, 4G router* (on demand);
* Video extension: Video coder HDMSDI/CVBS* (on demand);
* positioning: GPS/BD* (on demand);
* voice communication: VOIP voice conference;
* power supply: 26~36V/2A;
* power consumption: 8~25W;
* working hours: 6~10 hours (Integrated removable battery)
* working Temperature: -40~+65℃;
* size: 146 * 232 * 61mm;
* total weight: 2962g (with battery)
MESH-HR02-10W vehicle/back carried station

The vehicle type/bear ad-hoc network station, firing frequency range is 70 ~ 6000 MHz can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission. The device itself is built with large capacity lithium battery and compact design, with single channel 2W and dual channel 4W transmitting power, which can meet the needs of users to quickly establish a private network in emergency situations and provide a stable transmission channel for users’ IP data services such as voice, message and video.

Key feature:

* Network scale: single frequency up to 32 nodes;
* Frequency: 320-470M/400-650M/1-1.5G optional, 1MHz step adjustable;
* Tx power: 40dBm (10W), 1dBm step adjustable, Power Optional;
* Bandwidth: 2.5 / 5 / 10 / 20* / 40* MHz (*Optional)
* Waveform: TDD-COFDM + 2T2R;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
* Rx sensitivity: -100dBm@2.5MHz;
* Communication range: up to 120km (air to air) up to 20km (ground to ground)
* Communication speed: 1~100Mbps (self-adaption);
* Transmission time delay: single hopping 7ms@2.5MHz;
* Multi hopping capability: short message up to 15 hopping, voice up to 10 hopping, video up to 8 hopping;
* Movement speed: support 2000+Km/H high speed movement;
* Start time: 27second;
* Network connection speed: <1second;
* Data interface: Ethernet x2, RS232 x3, USBx1;
* Network extension: WiFi AP, 4G router* (*on demand);
* Video extension: Video coder HDMI/SDI/CVBS* (*on demand);
* Positioning: GPS/BD* (*on demand);
* Voice communication: VOIP voice conference;
* Power supply: 26~36V/2A;
* Power consumption: 8~25W;
* Working hours: 6~10hours (Integrated removable battery)
* Working Temperature: -40〜+65 ℃;
* Size: 176 * 260 * 61mm;
* Total weight: 3570 g (with battery)
MESH-DR03-2W airborne station (40-60KM)

The airborne type, ad-hoc network radio transmitting frequency range of 340 m - 470 m / 450 m - 600 MHz / 1.15 G - 1.5 GHz optional, use a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, no human with no center frequency between the fixed point ad-hoc network broadband transmission.

Key feature:
* Network scale: single frequency up to 32 nodes;
* Frequency: 340~470/450~600/1150~1500MHz optional 125KHz step adjustable;
* Tx power: 33dBm (2w), 1dBm step adjustable;
* Bandwidth: 1.25 / 2.5 / 5 / 10 MHz;
* Waveform: TDD-COFDM + 1T2R;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
* Rx sensitivity: -98dBm @2.5MHz;
* Communication range: 40~60km (ground to air), related to antenna height;
* Communication speed: 1~25Mbps (self-adaption);
* Transmission time delay: single hopping 8ms@2.5MHz;
* Multi hopping capability: short message up to 15 hopping, voice up to 7 hopping,
  video up to 5 hopping;
* Movement speed: support 300+Km/H high speed movement;
* Start time: 6 second;
* Network connection speed: <1second;
* Data interface: Ethernet x 2, RS232 x 2, RS485 x 1;
* Network extension: WIFI AP, 4G router*, (on demand);
* Video extension: Video coder HDMI/SDI/CVBS* (on demand);
* Positioning: GPS/BD* (on demand);
* Voice communication: VOIP voice conference;
* Power supply: 12V/2A;
* Power consumption: 6~15W;
* Working temperature: -20~+65℃;
* Size: 118*147*56mm;
* Total weight: 600g;
MESH-HR03-4W airborne station (60-100KM)

The airborne type, ad-hoc network radio transmitting frequency range of 300 m to 1.5 GHz can be customized, using a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission.

Key feature:
*Network scale: single frequency up to 32 nodes;
*frequency: 320-470M/400-650M/1.0-1.5G optional, 1MHz step adjustable;
*Tx power: 36dBm (4W), 1dBm step adjustable;
*bandwidth: 2.5 / 5 / 10 / 20* MHz(*20MHz optional);
*waveform: TD-COFDM + 2T2R ;
*Carrier modulation: BPSK/ QPSK/ 16QAM/ 64QAM (self-adaption);
*Rx sensitivity: -100dBm@2.5MHz;
*communication range: 60~100km (ground to air/air to air);
*communication speed: 1~56Mbps (self-adaption);
*transmission time delay: single hopping7ms@2.5MHz;
*multi hopping capability: short message up to15 hopping, voice up to10 hopping, video up to8 hopping;
*movement speed: support 2000+Km/H high speed movement;
*start time: 27second;
*network connection speed: <1second;
*data interface: Ethernet x 2. RS232 x 2;
*network extension: WIFI AP,
*Video extension: Video coder HDMI SDI/CVBS* (*on demand);
*positioning: GPS/BD* (*on demand);
*voice communication: full duplex VOIP voice conference;
*power supply: 26~36V/2A;
*power consumption: 8~30W;
*working Temperature: -40~+65℃;
*size: 106 * 141 * 49mm;
*total weight: 745g;
MESH-DR03-10W airborne station (80-100KM)

The airborne type, ad-hoc network radio transmitting frequency range of 340 m - 470 MHz / 450 m - 600 MHz / 1.15 G - 1.5 GHz optional, use a new generation of multiple hops ad-hoc network protocol without line electric technology, have the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) with no center frequency between the fixed point ad-hoc network broadband transmission.

Key feature:
*Network scale: single frequency up to 32 nodes; Clustering network 128 nodes
*frequency: 340~470/450~600/1150~1500MHz optional, 125KHz step adjustable;
*Tx power: 40dBm (10w), 1dBm step adjustable;
*bandwidth: 1.25 / 2.5 / 5 / 10 MHz;
*waveform: TDD-COFDM + 1T2R;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -98dBm @2.5MHz;
*communication range: 80~100km (ground to air) related to antenna height;
*communication speed: 1~25Mbps (self-adaption);
*transmission time delay: single hopping 8ms @2.5MHz;
*multi hopping capability: short message up to 15 hopping, voice up to 7 hopping, video up to 5 hopping;
*movement speed: support 300+Km/H high speed movement;
*start time: 6second;
*network connection speed: <1 second;
*data interface: Ethernet x 2, RS232 x 2, RS485 x 1;
*network extension: WIFI AP;
*Video extension: Video coder HDMI SDI/CVBS* (on demand);
*positioning: GPS/BD* (on demand);
*voice communication: VOIP voice conference;
*power supply: 24V/2A;
*power consumption: 10~40W;
*working Temperature: -20~+65℃;
*size: 186*220*68mm;
*total weight: 3000g;
MESH-AR/TR series AD hoc network radio station

The SDR scheme based on FPGA + ADC chip, multicarrier COFDM, dynamic TDMA, OLSR intelligent routing, optional: adaptive frequency selective AR/TR frequency hopping networking (1000 jump/SEC), network size 32 nodes, peak rate of 105 MBPS, IP passthrough, serial port passthrough, full-duplex VOIP voice conference, either AES128/256 encryption, intelligent frequency selective/frequency hopping anti-jamming, stable and rable transmission, empty horizon of up to 200 kilometers, 70 ~ 6000 MHZ range can be customized.

Key feature:
* Network scale: single frequency max support 32 nodes; Multi-frequency cluster 128 nodes
* frequency: 70~6000MHz Optional, normal: 320-470M/400-650M/1.0-1.5GHz ;
* Tx power: dual channel, 36/40/43dbm (4W/10W/20W), 1dBm step adjustable;
* bandwidth: 2.5 / 5 / 10 / 20* / 40* MHz (*Optional)
* Anti-interference: AR self-adaption frequency selection or TR wideband hopping (>1000 hopping/second);
* hopping bandwidth: > 200MHz; hopping points: max support 256; selection points:16
* waveform: TDD-COFDM + 2T2R ;
* Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
* Rx sensitivity: -100dBm@2.5MHz;
* communication range: 100-200km (air to air) 2-15km (ground to ground), related to antenna height;
* communication speed: max 105Mbps (self-adaption) ; movement speed:support 2000+Km/H;
* start time: 28second; network connection speed: <1second;
* data interface: Ethernet x 2, RS232 x 3, USBx1, WIFI AP;
* Video extension; Video coder HDMI SDI/CVBS* (*on demand);
* positioning: GPS/BD* (on demand); voice communication: VOIP voice conference;
* power supply: 28~36V/2A; power consumption: 8~30W@2W, dual channel:
<table>
<thead>
<tr>
<th>Scene</th>
<th>Type</th>
<th>Frequency (MHz)</th>
<th>Pout (dBm)</th>
<th>Peak speed (Mbps)</th>
<th>Air-air distance (Km)</th>
<th>Dimension (mm)</th>
<th>Weight (Kg)</th>
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<tr>
<td>MESH-TR01 handheld / back</td>
<td>TR01-400-2W(2T2R)</td>
<td>320~450 hopping</td>
<td>33</td>
<td>25</td>
<td>2-50</td>
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<tr>
<td>MESH-TR01</td>
<td>TR01-500-2W(2T2R)</td>
<td>400~650 hopping</td>
<td>33</td>
<td>25</td>
<td>2-50</td>
<td>80 * 230 * 38</td>
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<tr>
<td>MESH-TR01</td>
<td>TR01-1400-2W(2T2R)</td>
<td>1000~1500 hopping</td>
<td>33</td>
<td>25</td>
<td>2-50</td>
<td>80 * 230 * 38</td>
<td>0.945</td>
</tr>
<tr>
<td>MESH-TR02 vehicle-mounted /</td>
<td>TR02-400-4W(2T2R)</td>
<td>320~450 hopping</td>
<td>36/43</td>
<td>56/105</td>
<td>60-160</td>
<td>176 * 263 * 61</td>
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<td>relay station</td>
<td>TR02-500-4W(2T2R)</td>
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<td>36/43</td>
<td>56/105</td>
<td>60-160</td>
<td>176 * 263 * 61</td>
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<td>TR02-1400-4W(2T2R)</td>
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<td>56/105</td>
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<td>TR03-400-4W(2T2R)</td>
<td>320~450 hopping</td>
<td>36/43</td>
<td>56/105</td>
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<td>data integration)</td>
<td>TR03-500-4W(2T2R)</td>
<td>400~650 hopping</td>
<td>36/43</td>
<td>56/105</td>
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<td>176 * 180 * 61</td>
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<tr>
<td>MESH-TR03</td>
<td>TR03-1400-4W(2T2R)</td>
<td>1000~1500 hopping</td>
<td>36/43</td>
<td>56/105</td>
<td>60-160</td>
<td>176 * 180 * 61</td>
<td>0.75</td>
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</table>
MESH-AR/TR series product

Based on different application scenarios, form offers a variety of products for users to use, the current line of products can provide portable handheld or individual unmanned aerial vehicle (UAV) MESH equipment, automotive knapsack, ship frame type MESH and MESH devices, form between different products and achieve seamless docking ad-hoc network, providing customers with stereo comprehensive solutions, also can customize for OEM customers in the industry in order to realize the different forms of product differentiation competition.

2W/4W/20W Individual handheld radio/ aero plane embedded
image data integrated radio station

4W/10W/20W Vehicle-borne station/repeater base station
/1U rack-mounted shipborne station
MESH-TR01-2W individual radio station

The individual handheld ad-hoc network station (optional: adaptive frequency selective radio/military hopping radio), transmitting frequency range of 70M to 6G can be customized, using a new generation of multi hopping ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, no human protection without center frequency selective/frequency hopping between ad-hoc network broadband transmission. Have 2W transmission power and satisfy users set up private network rapidly in emergency situations, for the user's voice, news, video and other IP data service provides stable transmission channel.

Key feature:
*Network scale: single frequency up to 32 nodes;
*AR Have the ability of frequency selection and anti-interference: self-adaptation optional.
TR has hopping anti-interference capability
(>1000 hopping/second) Used in military field against complex channel environment
*frequency: within 70~6000MHZ optional, 1MHz step adjustable;
*Tx power: 33dBm (2W), 1dBm step adjustable;
*bandwidth: 2.5 / 5 / 10 MHz;
*waveform: TDD-COFDM + 2T2R；
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -100dBm@2.5MHz;
*communication range: 15~30km (ground to air), 1.5~10km (ground to ground);
*communication speed: 1~25Mbps (self-adaption);
*transmission time delay: single hopping 7ms@2.5MHz;
*multi hopping capability: short message up to 15 hopping, voice up to 10 hopping, video up to 8 hopping;
*movement speed: support 2000+Km/H high speed movement;
*start time: 27second;
*network connection speed: <1second;
*data interface: Ethernet x 1，RS232 x 1；
*network extension: WIFI AP, 4G router*（*on demand）;
*Video extension: Video coder HDMI SDI/CVBS*（*on demand）;
*positioning: GPS/BD*（*on demand）;
*voice communication: VOIP voice conference;
*power supply: 9~15V/1A；
*power consumption: 4~8W@2W, dual channel;
*working hours: 6 hours（Integrated removable battery）
*working Temperature: -40~+65℃;
*size: 230 * 80 * 38 mm;
*total weight: 945g;
*level of protection: IP66
MESH-TR02-4W vehicle/back carried station

The vehicle type/bear ad-hoc network station (optional: adaptive frequency selective radio/military hopping radio), the rate of frequency range of 70M to 6G can be customized, using a new generation of jump more wireless ad-hoc network technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned machine fixed point without center frequency selective/frequency hopping between ad-hoc network broadband transmission. The device itself is built with a large capacity lithium battery, with a compact design and a dual-channel 4W transmission power, which can meet the needs of users to quickly establish a private network in urgent situations and provide a stable transmission channel for users' IP data services such as voice, message and video.

Key feature:

*Network scale: single frequency up to 32 nodes;
*AR Have the ability of frequency selection and anti-interference: self-adaption optional. TR has hopping anti-interference capability;
*frequency: within 70~6000MHz Optional. 1MHz step adjustable;
*Tx power: 36dbm (4W), 1dBm step adjustable. Power Optional;
*bandwidth: 2.5 / 5 / 10 / 20* MHz (20MHz optional);
*waveform: TDD-COFDM + 2T2R;
*Carrier modulation: BPSK/QPSK/16QAM/64QAM (self-adaption);
*Rx sensitivity: -100dBm@2.5MHz;
*communication range: up to 120km (air to air)
  up to 20-50km (ground to ground);
*communication speed: 1~56Mbps (self-adaption);
*transmission time delay: single hopping7ms@2.5MHz;
*multi hopping capability: short message up to15 hopping, voice up to 10 hopping, video up to 8 hopping;
*movement speed: support 1000+Km/H high speed movement;
*start time: 27second, network connection speed: <1second;
*data interface: Ethernet x2, RS232 x3, USBx1;
*network extension: WIFI AP;
*Video extension: Video coder HDMI/SDI/CVBS* (on demand);
*positioning: GPS/BD* (on demand);
*voice communication: VOIP voice conference;
*power supply: 26~36V/2A;
*power consumption: 8~25W;
*working hours: 6~10hours (Integrated removable battery)
*working Temperature: -40~+65℃;
*size: 176 * 260 * 61mm;
*total weight: 3570g;
MESH-TR02-20W vehicle/vessel carried station

The vehicle type/ship ad-hoc network station (optional: adaptive frequency selective radio/military hopping radio), the frequency range of 70 m to 6 g can be customized, using a new generation of more jump ad-hoc network protocol of wireless electric technology, have the ability to against the complex channel environment and realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) between the fixed point without center frequency hopping frequency selective/ad-hoc network broadband transmission. It is equipped with a built-in large-capacity lithium battery with a compact design and a dual-channel 20W transmission power, so as to quickly establish a private network for users in emergency situations and provide a stable transmission channel for IP data services such as voice, message and video.

**Key feature:**

- Network scale: single frequency up to 32 nodes, Clustering network up to 128 nodes
- Frequency: 70~6000MHz Optional. 1MHz step adjustable normal: 320-470M/400-650M/1.0-1.5GHz optional
- Tx power: 2*40dBm（2*10W）, 1dBm adjustable
- Bandwidth: 2.5 / 5 / 10 / 20* / 40* MHz （*Optional）
- Modulation: COFDM+2T2R
- Anti-interference capability: used in military field against complex channel environment.

AR self-adaption Intelligence frequency selection:

（Frequency selection parameter: support 16 frequency points at most） TR hopping anti-interference：（>1000 hopping/second）max 256 points, hopping bandwidth > 200MHz
- Rx sensitivity: -100dBm@2.5MHz
- Communication speed: peak 25Mbps@10MHz, peak 56Mbps@20MHz peak 105Mbps@40MHz
- Communication range: up to 150-200km（air to air）, up to 30-50km（ground to ground）
- Voice function: full duplex VOIP voice conference
- Data interface: Ethernet*2, serial *2, WiFi AP
- Positioning: GPS/BD（integration on demand）
- Size: 280*230*76mm
- Total weight: 4.5kg
- Working Temperature: -40℃~+65℃
MESH-TR03-20W airborne station (100-150KM)

The airborne type air ad-hoc network station (optional: adaptive frequency selective radio/military hopping radio), the frequency range of 320-470 - m / 400-650 - m / 1.0 G - 1.5 GHz optional, use a new generation of more jump ad-hoc network protocol of the radio technology, have the ability to against the complex channel environment, realize the complete individual under complex scene, motor points, such as vehicles, unmanned aerial vehicle (UAV) between the fixed point without center frequency selective/hopping ad-hoc network broadband transmission.

Key feature:

* Network scale: single frequency up to 32 nodes. Clustering network up to 128 nodes
* Frequency: 70~6000MHz Optional. 1MHz step adjustable normal: 320-470M/400-650M/1.0-1.5GHz optional
* Tx power: 2*40dBm (2*10W), 1dBm adjustable
* Bandwidth: 2.5 / 5 / 10 / 20*/ 40* MHz (*Optional)
* Modulation: COFDM+2T2R
* Rx sensitivity: -100dBm@2.5MHz
* Communication range: up to 150km (ground to air/air to air)
* Communication speed: peak 25Mbps@10MHz, peak 56Mbps@20MHz, peak 105Mbps@40MHz
* Data interface: Ethernet*2, serial *2, HDMI, WiFi AP
* Positioning: GPS/BD (integration on demand)
* Size: 280*230*76mm
* Total weight: 4.5kg
* Working Temperature: -40~+65℃
Tactical connection solution

In the complex battlefield environment, it can quickly build a wideband network with high reliability, high mobility, strong anti-interference, self-healing and beyond line-of-sight transmission wireless wideband network.

It is interconnected with heterogeneous military networks to build a "space-air-ground" networked tactical communication network, with integrated command and coordination of command information nodes and efficient coordination of combat information nodes, to realize real-time interaction between front and rear. Information nodes of each combat unit realize battlefield situational awareness and enemy situation information sharing, real-time military information consultation, combat instruction issuing, and task assignment at any time needed.