



VDLINK OFDM Series MESH Networking Video/Data Link



Foxtech

VDLINK OFDM Series MESH Networking Video/Data Transmission System

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\$6,599.00 – \$32,099.00

SKU: S240927

Weight: 5.00 KGS

Version: Required

J30 Interface

Standard Interface

Range: Required

50km

100km

200km

300km

Quantity:

▼

1

▲

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Description

VDLINK OFDM Series high-performance image transmission device is equipped with advanced technology, specifically designed to meet data transmission needs in complex environments. Its automatic intelligent frequency selection feature monitors and selects the optimal frequency point in real-time, ensuring signal quality. It supports up to 16 sub-frequency points and automatically avoids interference within a 100M working frequency band, ensuring stable transmission.

The inter-frequency networking feature separates signal transmission and reception into different frequency bands, effectively countering interference devices and enhancing anti-jamming capability.

With MIMO dual transmission and reception technology, it solves signal obstruction issues during aircraft turns, offering a single-point data bandwidth of up to 47Mbps, ideal for high-speed data transmission.

Additionally, the MESH network supports 4 nodes by default and can be expanded to 16, 32, or 64 nodes, providing flexible network configuration options for large-scale applications based on customer needs.

The video transmitter also includes a real-time spectrum scanning visual interface, allowing users to monitor interference conditions instantly, enabling rapid identification and management of signal issues in complex environments.

The current model operates in the 1350MHz~1450MHz frequency band, with customizable frequency options ranging from 635MHz to 2.7GHz.

Your Purchase Includes:

1x VDLINK OFDM 50-MN-4 MESH Networking Video/Data Transmission System
(OFDM100-MN-4/OFDM200-MN-4/OFDM300-MN-4)

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CHAT NOW

VDLINK OFDM Series MESH Networking Video/Data Link

Long range MESH Networking video/data transmission system, specifically designed to ensure stable and efficient image transmission in complex and high-speed environments.



50km/100km/200km/300km
Transmission Range



4 Nodes
Mesh Networking



1350~1450MHz
Frequency Hopping



LAN*1;232*2;TTL*2;SBUS*2;422*1
Multiple Interfaces



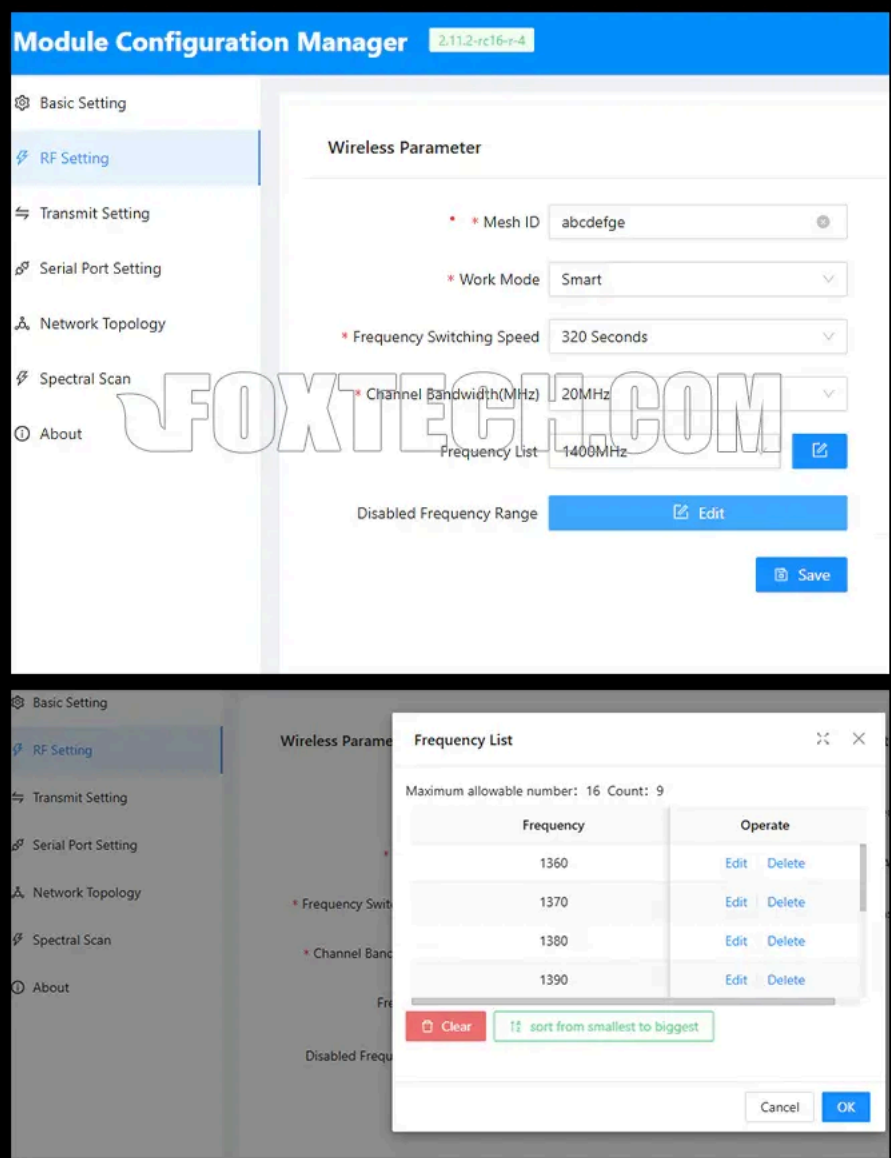
1000hop/s
Frequency Hopping Rate



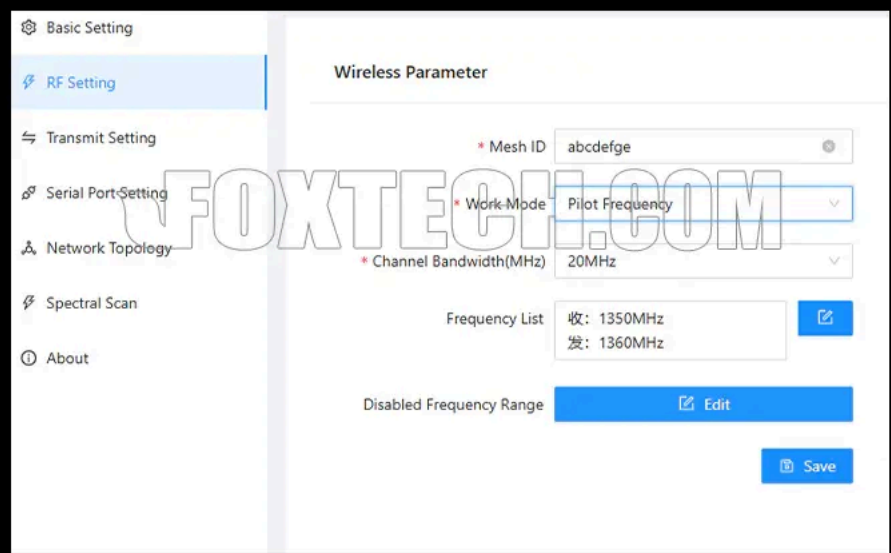
AES/DES
Secure Data Transmission

OFDM Dynamic Frequency Optimization

Optimal frequency point selection, real-time noise monitoring of preset frequencies, supports for up to 16 preset sub-frequencies, and automatically avoids interference within a 100M working frequency band to maintain signal stability.



Utilizes Separate Frequency Bands for Signal Transmission and Reception Enhancing Interference Protection

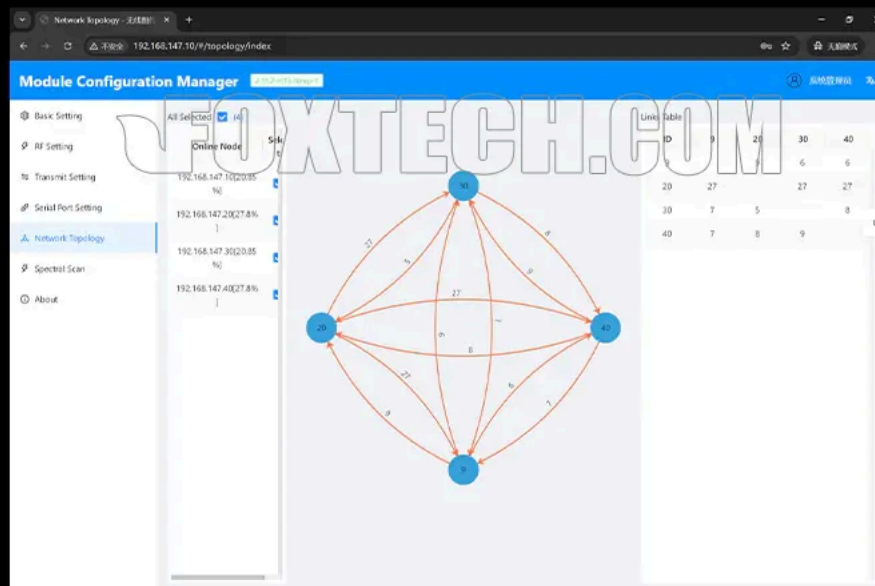


Note: Supports fixed frequency points only.

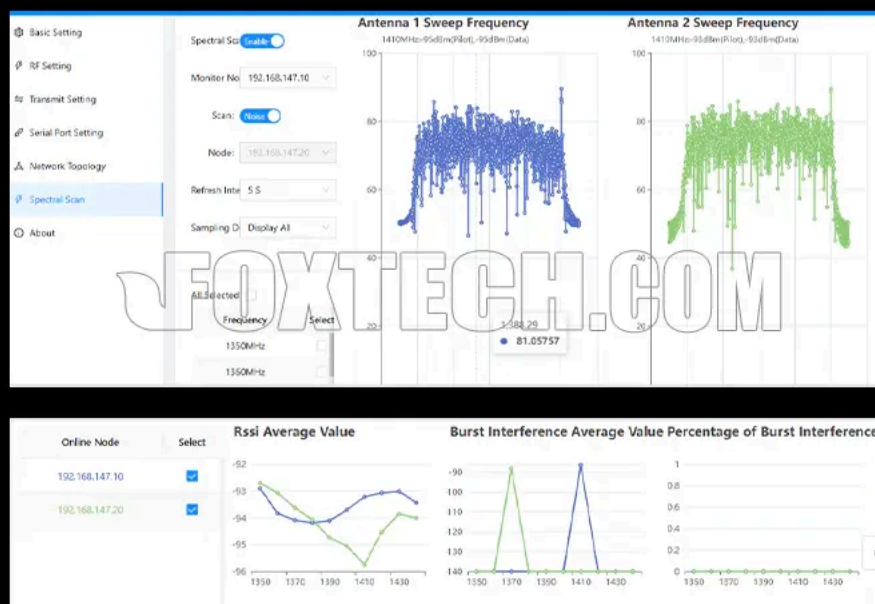
Flexible MESH Node Configuration

Perfect for scaling applications from small setups to extensive networks.

Defaults to 4 nodes, offering customization options for 16, 32, or even 64 nodes tailored to specific customer needs.

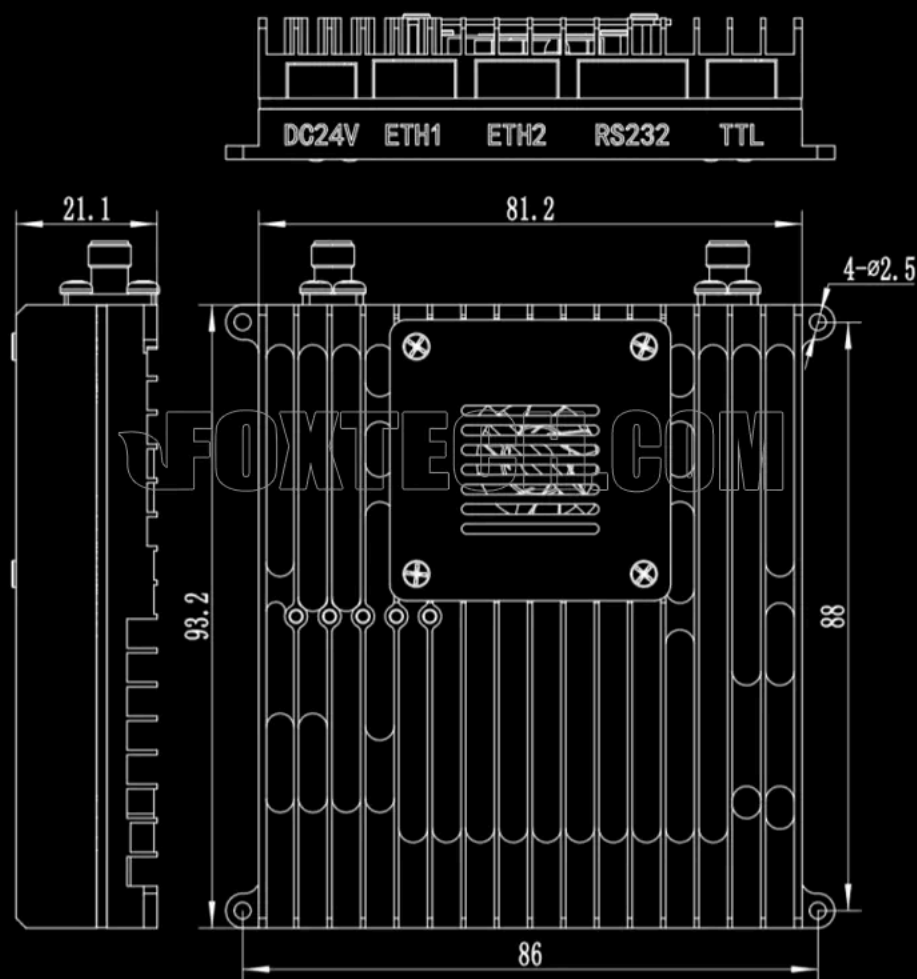


Real-Time Spectrum Scanning with Visual Interface

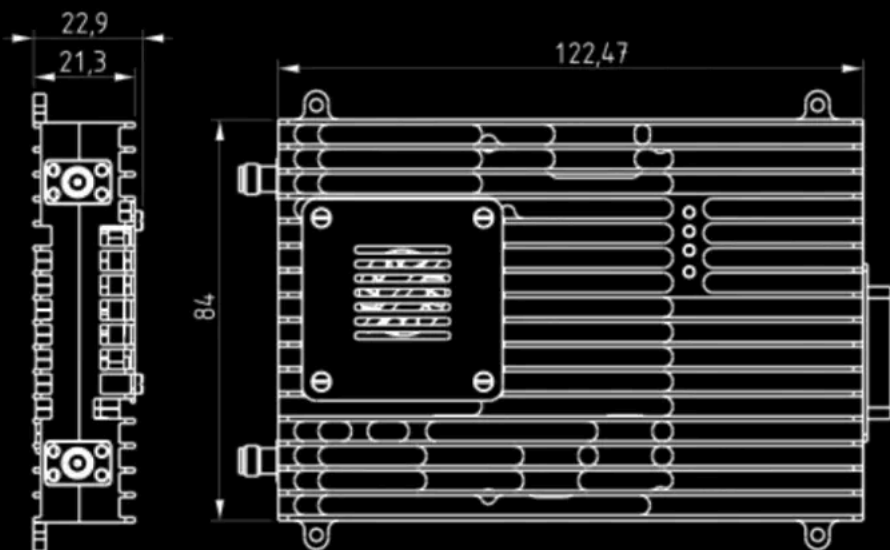


Structural Diagram

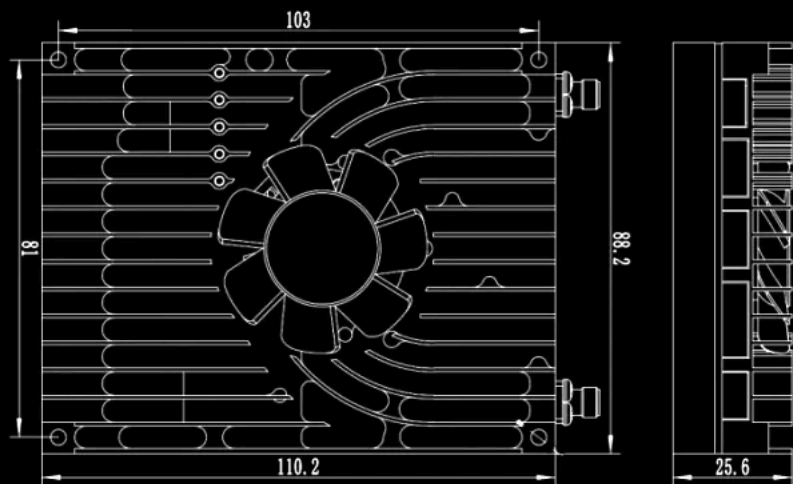
Unit: mm



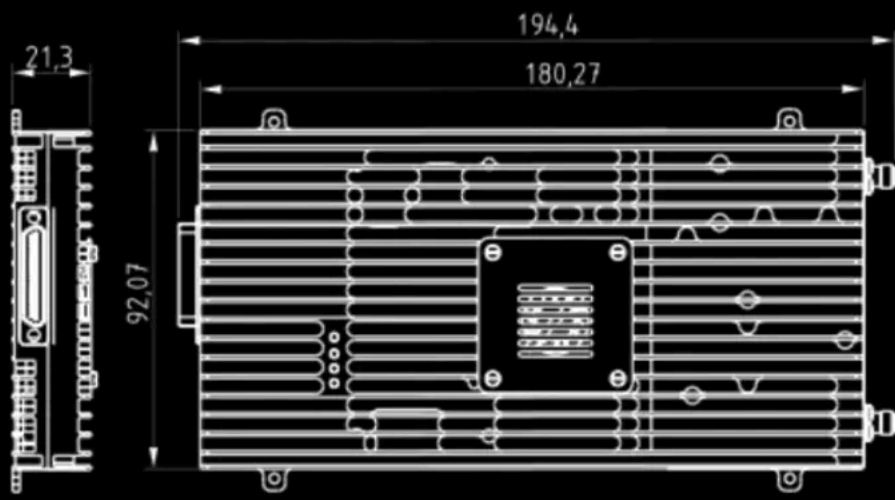
▲ Standard Interface Version — 50KM



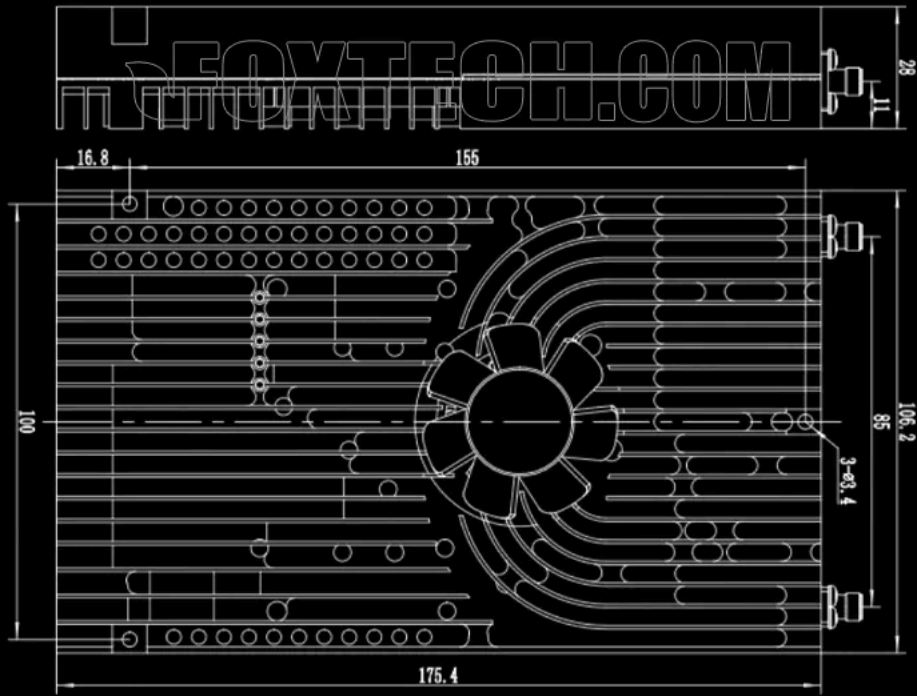
▲ J30 Interface Version — 50KM



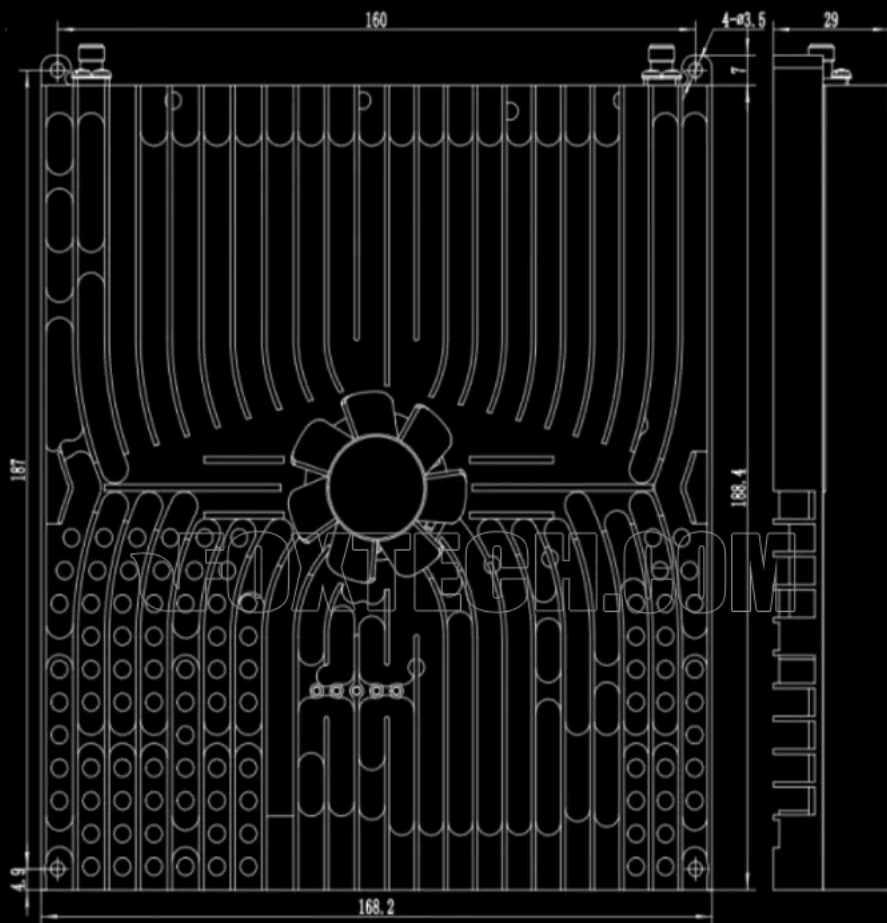
▲ Standard Interface Version — 100KM



▲ J30 Interface Version — 100KM



▲ Standard Interface Version — 200KM



▲ Standard Interface Version — 300KM

Specification


| J30 Interface Version | | |
|------------------------|-----------------------------------|------------------------------------|
| Transmission Distance | Ground-to-air 50km | Ground-to-air 100km |
| Operating Frequency | 1350-1450MHz | 1350-1450MHz |
| Receiver Sensitivity | 20MHz -99dBm | 20MHz -99dBm |
| | 10MHz -103dBm | 10MHz -103dBm |
| | 5MHz -104dBm | 5MHz -104dBm |
| Transmit Power | 0 - 30dBm±3 | 0-36dBm±3 |
| Channel Bandwidth | 5MHz/10MHz/20MHz | 5MHz/10MHz/20MHz |
| Modulation Method | OFDM/QPSK/16QAM/64QAM | OFDM/QPSK/16QAM/64QAM |
| Start-up Time | ≤10s | ≤10s |
| Weight | 232.5g | 433g |
| Interface Type | ETH*1, 232*2, TTL*2, SBUS*2,422*1 | ETH*1, 232*2, TTL*2, SBUS*2, 422*1 |
| Transmission Bandwidth | Max of 47 Mbps at a Single Node | Max of 47 Mbps at a Single Node |
| Temperature Range | Storage -40°C~+85°C | Storage -40°C~+85°C |
| | Operating -20°C~+55°C | Operating -20°C~+55°C |
| Transmission Delay | ≤150ms | ≤150ms |
| Configuration Tool | Web Interface | Web Interface |
| Supply Voltage | 24V | 24V |
| Maximum Current | 1A | 2A |
| Maximum Power | 24W | 48W |
| Size | 136.5*96.0*22.9mm | 194.4*97.0*21.3mm |

| Standard Version | | | | |
|------------------------|---------------------------------|--------------------------|---------------------|---------------------|
| Transmission Distance | Ground-to-air 50km | Ground-to-air 100km | Ground-to-air 200km | Ground-to-air 300km |
| Operating Frequency | 1350-1450MHz | | | |
| Receiver Sensitivity | 20MHz -99dBm | | | |
| | 10MHz -103dBm | | | |
| | 5MHz -104dBm | | | |
| Transmit Power | 0 - 30dBm±3 | 0-36dBm±3 | 0 - 40dBm±3 | 0 - 47dBm±3 |
| Channel Bandwidth | 5MHz/10MHz/20MHz | | | |
| Modulation Method | OFDM/QPSK/16QAM/64QAM | | | |
| Start-up Time | ≤10s | | | |
| Weight | 169g | 246.5g±2 (Small Size) | 553g | 1004g |
| Interface Type | ETH*2, 232*2, TTL*1 | | | |
| Transmission Bandwidth | Max of 47 Mbps at a Single Node | | | |
| Temperature Range | Storage-40°C~+85°C | | | |
| | Operating-20°C~+55°C | | | |
| Transmission Delay | ≤150ms | | | |
| Configuration Tool | Web Interface | | | |
| Supply Voltage | 24V | | | |
| Maximum Current | 1A | 2A | 3A | 7.5A |
| Maximum Power | 24W | 48W | 72W | 180W |
| Size | 93.2*86.2*21.1mm | 110.2*88.2*25.6 mm | 175.4*106.2*28.0mm | 188.4*168.2*29mm |

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