

Outdoor Wireless Broadband Mesh Network Equipment



Product Overview

This device is primarily designed for video and data transmission in outdoor environments without cellular coverage, utilizing wireless broadband mesh network technology. It is suitable for wireless monitoring applications in sectors such as power grids, forestry and grassland, marine and other fields.

Key Parameters

1. **Operating Frequency Bands**

5.8 GHz, 1.4 GHz, 2.4 GHz (optional)

2. **Transmit Power**

2×200 mW, 2×1 W, 2×2 W (optional)

3. **Maximum Transmission Rate**

90 Mbps

4. **Transmission Range**

Ground-to-Ground LOS: 1–5 km (depending on PA power)

5. **Environmental Protection**

IP67 Dustproof and Waterproof

6. **Surge & ESD Protection**

Industrial Grade 4 Lightning Surge and ESD Protection Level

7. **Low-Pressure Adaptation**

Supports low-pressure environment down to 55kPa

8. **Networking Mode**

Supports chain, star or mesh networking, with up to 32 concurrent nodes

9. **Interfaces**

2× Ethernet ports, 1× RS485, 1× USB, Wi-Fi, GNSS

Wireless Broadband Mesh Network Unit



Product Overview

This compact unit is designed for video and data transmission in environments without cellular coverage, utilizing wireless broadband mesh network technology. It is typically integrated within other equipment, such as unmanned vehicles.

Key Parameters:

- 1. Operating Frequency Band**
1.4 GHz
- 2. Transmit Power**
 2×2 W
- 3. Maximum Transmission Rate**
90 Mbps
- 4. Transmission Range**
Ground-to- Air LOS: 50 km
- 5. Dimensions**
110 mm \times 70 mm \times 28 mm
- 6. Weight**
250 g
- 7. Networking Mode**
Supports mesh networking, with up to 32 concurrent nodes
- 8. Interfaces**
2 \times Ethernet ports, 2 \times RS232, 1 \times RS422

Wireless Broadband Mesh Network Board



Product Overview

This compact board is designed for video, voice, and data transmission in environments without cellular coverage, utilizing wireless broadband mesh network technology. It is typically integrated within other equipment, such as unmanned vehicles, handheld units and manpack units.

Key Parameters

1. **Operating Frequency Bands**

1.4 GHz by default (customizable from 700 MHz to 6 GHz)

2. **Transmit Power**

-10~0 dBm (with external PA)

3. **Maximum Transmission Rate**

90 Mbps

4. **Transmission Range**

Ground-to- Air LOS: 100km (depending on PA power)

5. **Weight:**

65 g

6. **Networking Mode**

Supports mesh networking, with up to 64 concurrent nodes

7. **Interfaces**

2× Ethernet ports, 2× RS232, 2× RS422, Wi-Fi, GNSS