



## **MB33 Backpack Mesh Radio**

- Compact Size**
- 2 Watt Transmit Power**
- 5 Seconds Quick Setup Time**
- Up to 52 IP Mesh Nodes**
- More Than 10 Hops Networking**
- AES128/256 Security Protection**
- 10KM Ground Open Area Transmission Distance**

## SPECIFICATIONS

### Wireless

|                            |  |
|----------------------------|--|
| <b>Frequency Range</b>     | 1428 ~ 1448MHz                           |
| <b>Bandwidth</b>           | 5M/10M/20MHz                             |
| <b>Transmission System</b> | COFDM                                    |
| <b>Modulation Mode</b>     | BPSK/QPSK/16QAM/64QAM<br>(Self-Adaption) |
| <b>Data Rate</b>           | 90Mbps@20MHz (Peak)                      |
| <b>RF Power</b>            | 2W                                       |
| <b>Receive Sensitivity</b> | -97dBm@1MHz                              |

### Interface

|                           |                            |
|---------------------------|----------------------------|
| <b>RF Antenna</b>         | N Type Female × 2          |
| <b>GPS Antenna</b>        | SMA                        |
| <b>WIFI Antenna</b>       | SMA                        |
| <b>Ethernet Interface</b> | Aviation to RJ45 Connector |
| <b>Audio Interface</b>    | Aviation Connector         |

### System

|                          |  |
|--------------------------|--|
| <b>Video Input</b>       | Ethernet (HDMI/AV for Customize)             |
| <b>Audio Input</b>       | Remote Microphone or Earpiece                |
| <b>Security</b>          | AES128/256 Encryption                        |
| <b>Power Supply</b>      | DC25.2V 5000mAh<br>Removable Lithium Battery |
| <b>Power Consumption</b> | ≤ 30W  |

### Networking

|                              |  |
|------------------------------|--|
| <b>Networking Capability</b> | ≥ 52 Nodes                                     |
| <b>Networking Hops</b>       | > 10 Hops                                      |
| <b>Access Time</b>           | 5s after Startup of System                     |
| <b>Topology Type</b>         | Ad-Hoc Network, Star Network,<br>Chain Network |

### Physical

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Dimension</b>             | ≤ 275 × 198 × 52mm (with Battery) |
| <b>Weight</b>                | ≤ 3000g (with Battery)            |
| <b>Protection Level</b>      | IP66                              |
| <b>Operating Temperature</b> | -30°C ~ +65°C                     |

## ACCESSORIES



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