# Nanjing Maxon Technology Co., Ltd

### 6F, Bldg A3, Zidong International Creative Park, Zidong Rd, Qixia District, Nanjing, China.

## MF7000B-20
## 20W Base-station Self-organizing Network Radio

*Rapid deployment *Beidou positioning *No center network

*Customizable power *Ready to use *Ultra Long-distance

## Product Introduction

Base station type self-organizing network radio station can be fixedly installed by pole, wall and bracket, etc. It is mainly deployed at outdoor fixed points and mobile points on ships. It is waterproof and dustproof, easy to install and simple to operate. The equipment has large transmission power, covers a long communication distance, integrates data transmission and reception, dynamic routing, relay forwarding, and quickly self-organizes with other node devices to form a wireless multi-hop broadband network, providing users with wireless transmission services for multimedia services such as voice, data and video. All nodes are in line-of-sight or non-line-of-sight environments, without the need for a central gateway, all nodes are equal, and do not rely on wired communication lines, and wireless communication networks can be quickly established. It is particularly suitable for applications such as long-distance coverage link communication, information aggregation and return, regional coverage support, commanding heights enhanced coverage and relay transmission nodes, and can play a powerful role in emergency response, anti-terrorism and riot prevention, disaster relief, large-scale event support, temporary deployment and relay transmission. The transmission distance can reach more than 30km in an open ground environment, 1-5km in a blocked environment (depending on the blocking environment), and more than 100km from air to ground.

## Main features

* Networking without a center: nodes are equal in status and can be used as terminal nodes, relay nodes or central nodes
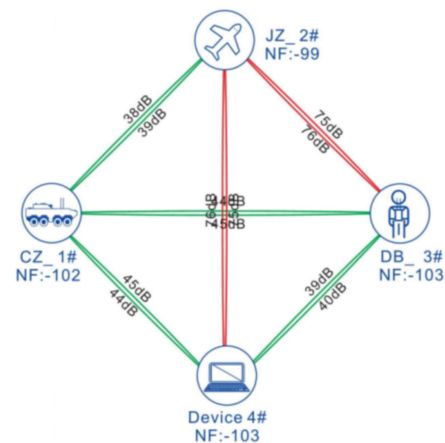* Networking with any structure: nodes automatically identify and select the optimal route for bandwidth data
* Security and confidentiality: through layer-by-layer encryption such as working frequency, carrier bandwidth, scrambling code, etc., support DES encryption
* Anti-interference and anti-destruction: using COFDM, MIMO, ARQ and other technologies to improve data bandwidth and anti-interference performance
* Flexible networking of multiple nodes: according to channel quality, rate, error code and other indicators, link routing is automatically calculated and networked flexibly

* Full IP networking and intercommunication: support data transparent transmission, interconnection of multiple systems, and real-time interaction of multimedia services

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### Nanjing Maxon Technology Co., Ltd
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## System parameters

| | |
|---|---|
| Operating frequency | 1800~2300MHz |
| Carrier bandwidth | 5/10/20MHz, self-adaptable |
| Transmission system | COFDM |
| Modulation mode | BPSK/QPSK/16QAM/64QAM (adaptive) |
| Transmission capacity | Peak rate 52Mbps@20MHz, optional version up to 100Mbps |
| Transmit power | 20W |
| Receive sensitivity | -100dBm@5MHz |
| Video input | Support IP network video input and WIFI video access (HDMI/AV needs to be customized) |

| Networking | | |
|---|---|---|
| | Networking capability | ≥64 nodes |
| | Networking hop count | ＞10 hops |
| | Network topology | No center network, star network, chain network, mesh network, etc. |

| | |
|---|---|
| Encryption method | DES/AES128/AES256 (optional) |
| Power supply | DC 28-36V |
| Power consumption | ≤180W |

### Device interface

| | |
|---|---|
| Antenna interface | N-K×2 |
| Beidou interface | Aviation plug connector |
| WIFI interface | SMA-K |
| Ethernet interface | Aviation plug connector |
| Power interface | Aviation plug connector |

### Physical indicators

| | |
|---|---|
| Device size | ≤340×240×135mm (battery include) |
| Device weight | ≤7.5kg |
| Protection level | IP65 |
| Operating temperature | -40℃～+65℃ |

## Accessories

| RF antenna | Beidou antenna | Wifi antenna | Aviation plug cable network port | Aviation plug cable power supply | Adapter | Mounting bracket | Packing box |
|---|---|---|---|---|---|---|---|

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