Nanjing Maxon Technology Co., Ltd
6F, Bldg A3, Zidong International Creative Park, Zidong Rd, Qixia District, Nanjing, China.

MAXON
LINK OF YOUR THINK

MF1200K-10
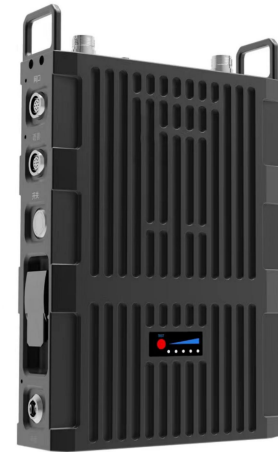## 10W Backpack Individual Self-organizing Network Radio

*IP66 *Rapid deployment *Beidou positioning *No center network
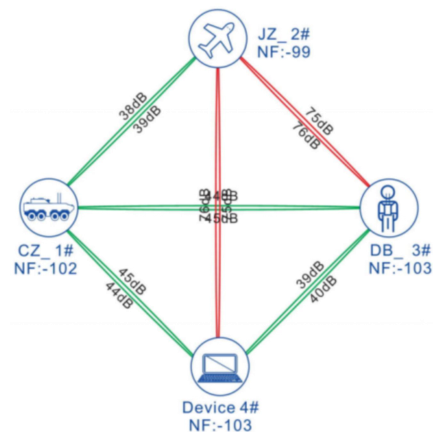
*Customizable power *Ready to use *Changeable battery

Product Introduction

The backpack-type individual self-organizing network radio is small in size, light in weight, and equipped with a high-capacity detachable battery, which is easy for a single soldier to carry and fully free his hands. With fast network access and automatic multi-hop relay, it can provide voice group calls, video return, relay transmission and other multimedia communication services for single soldiers, tactical teams, and tactical police dogs to achieve efficient collaboration. It has both Beidou positioning function and supports wifi coverage, and can be used with smart terminals with wifi function for various communications. The system adopts the same frequency networking and multi-hop relay, and supports any network topology, such as point-to-point, point-to-multipoint, chain relay, mesh network and hybrid network topology. It can provide wireless broadband communication for emergency response, anti-terrorism and riot control, covert reconnaissance, special operations, disaster relief, daily patrol and other "peace and war" tasks at the first time. The transmission distance can reach more than 20km in an open environment on the ground, 500~3000m in a blocked environment (depending on the blocking environment), and more than 50km from the air to the 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

MAXON
Link Of Your Think

Nanjing Maxon Technology Co., Ltd
TEL: 86-25-51816916
WEB: www.mxcomm.cn
E-MAIL: info@maxonc.com

System parameters

Operating frequency	1300~1500MHz
Carrier bandwidth	5/10/20/40MHz, self-adaptable
Transmission system	COFDM
Modulation mode	BPSK/QPSK/16QAM/64QAM (adaptive)
Transmission capacity	Peak rate 110Mbps@40MHz
Transmit power	10W
Receive sensitivity	-100dBm@5MHz
Video input	Support IP network video input, WIFI video access (HDMI video input needs to be customized)

Networking	Networking capability	≥64 nodes
	Networking hop count	＞10 hops
	Networking time	5s after system hot start
	Network topology	No center network, star network, chain network, mesh network, etc.

Encryption method	DES/AES128/AES256 (optional)
Power supply	DC 29.4V changeable battery
Power consumption	≤100W
Device interface	
Antenna interface	TNC-K×2
Beidou interface	SMA-K
WIFI interface	SMA-K
Ethernet interface	Aviation plug connector, supports 100M Ethernet port
Voice Interface	Aviation plug connector, supports handphone or headphones
Physical indicators	
Device size	≤315×210×65mm (battery include)
Device weight	≤4.3kg (battery include)
Protection level	IP66
Operating temperature	-40℃～+65℃

Accessories

RF antenna	Beidou antenna	Wifi antenna	Hand phone	Network port	Power supply	Adapter	Back Pack	Packaging aviation box

MAXON
Link Of Your Think

Nanjing Maxon Technology Co., Ltd
TEL: 86-25-51816916
WEB: www.mxcomm.cn
E-MAIL: info@maxonc.com