

# BASE STATION NARROWBAND MESH RADIO

350 to 390 Mhz

400 - 450 MHz

AES256 Encryption



Ultra-distant communication distance



Flexible, center-free ad-hoc network



Secure, encrypted communications

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# BASE STATION NARROWBAND MESH RADIO

The series narrowband radio has base station version to install on any type of vehicle. Its adopts new generation technology, can realize radio automatic networking without center. Within the network, the quantity of the terminals is 1024 nodes, the system support maximum 8 hops without reducing the voice quality, the communication range can be up to 40km.

The series radios can be used in any emergency, fast deployment scenario and enhance the communication



## Ultra-distant communication distance

The extremely low signal-to-noise threshold (1 dBm) and extremely high reception sensitivity (-125 dBm) achieve a single jump distance of 1.5 times over the same power intercom device in the market. The single jump distance can reach 15-20 km, and the high point to the low point can reach 50-80 km



## Flexible, center-free ad-hoc network

The device has the same frequency relay function, the maximum support eight-hop communication transmission, expand the communication distance 7~8 times. It can not only network with multiple base stations, but also network with handheld ad-hoc network intercom. The networking mode is flexible, and any node leaving or joining does not affect the communication of the whole network.



## Secure, encrypted communications

Unique communication mechanism, with AES256 encryption mode and tens of thousands of group codes, to achieve super encryption communication.



## IP65 protection grade

Support the IP65 protection level, to ensure the normal use in the harsh outdoor environment.

## TECHNICAL DATA

|                       |                                        |
|-----------------------|----------------------------------------|
| Size                  | : 200 * 166 * 70mm (excluding antenna) |
| Weight                | : 2.6 Kg (including battery)           |
| Battery voltage       | : 14.8V                                |
| Sensitivity           | : -125 dBm / BER 1%                    |
| Frequency interval    | : 12.5KHz                              |
| Emission power        | : 20W                                  |
| Battery capacity      | : 11Ah                                 |
| Single-jump distance  | : 15-20KM                              |
| Relay multiple jump   | : 8 jump                               |
| Frequency range       | : 350 to 390 / 400 ~ 450 Mhz           |
| Channel capacity      | : 1,024                                |
| Encryption            | : AES256                               |
| Protection level      | : IP65                                 |
| Operating temperature | : -30°C to + 60°C                      |

