

E-pack 100

Digital Wireless Ad Hoc Repeater

Wireless Mobile Ad Hoc Networking

Hytera E-pack 100 can create a wireless mobile ad hoc network, on which there a maximum 32 nodes. The ad hoc network is self-configuring and dynamic in which E-pack nodes are free to move.

High Spectrum Efficiency

Based on TDMA and FDMA technology, one frequency can be used to make calls and route voice at the same time, greatly saving frequency resources.

Reliable Quality

Hytera E-pack 100 is strictly compliant with MIL-STD-810 C/D/E/F/G standards and water and dust proof rating is up to IP67, ensuring outstanding performance even under harsh environments.

Fast Deployment

Based on wireless mobile ad hoc networking, Hytera E-pack 100 is capable of creating and joining networks to deploy the communication system as soon as it is powered on.

Caller Location Display

Radios within each E-pack node of the ad hoc network can check the location of caller including distance and azimuth angle.

GSM Link as Backup

With an embedded GSM card, an E-pack node separated from network can make a call via public network to any E-pack node on the network. This ensures radios within its coverage can communicate with radios on the network.



Technical Data E-pack 100

General data	
Protocol	DMR Tier II
Frequency ranges	136 – 174 MHz 350 – 400 MHz 410 – 470 MHz
Node capacity	32
Battery	185 Wh
Channel spacing	12.5 kHz
Operating voltage	14.8 V
Max. power consumption (in stand by)	≤ 0.8 A
Max. current consumption (during transmission)	5 W < 3.5 A 10 W < 4.5 A 20 W < 5.5 A
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H × W × D)	187 x 295 x 68 mm
Weight	3.6 kg
Battery	≥ 10 hours

Environmental conditions	
Operating temperature range	-30 °C to +60 °C
Storage temperature range	-40 °C to +85 °C
Relative humidity	< 95%

Transmitter	
RF Power output	5 – 50 W
Adjacent channel selectivity	60 dB at 12.5 kHz 70 dB at 25 KHz

Receiver	
Sensitivity	120 dBm
Intermodulation	≥ 70 dB
Spurious response rejection	70 dB
Blocking	≥ 84 dB
Conducted spurious emission	< - 57 dBm
Selectivity	60 dB at 12.5 kHz 70 dB at 25 kHz

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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