



## E-Pole 100

**The E-Pole 100 Digital wireless Repeater adopts wireless interconnection technology and versatile networking topologies to achieve large-scale communication coverage.**

The E-Pole 100 can be used independently without relying on other external facilities in all-weather and all terrain conditions.

As there is no need for cable networking

there is large savings in both installation and maintenance costs.

Its flexible mesh networking topologies means that it can be installed in a number of scenarios.

# Highlights

- > Lightweight and compact with excellent environmental specifications, making it suitable for installation in outdoor environments.
- > With pole-mounted or wall-mounted design, the E-Pole 100 device can be installed on light poles or building walls.
- > Up to 31 E-Pole 100 devices can be wirelessly interconnected and chain, mesh, and hybrid topologies are supported.
- > The E-Pole 100 device is ready to communicate with E-Pack 100 devices and DMR Conventional radios without requiring additional configuration and commissioning.
- > The E-Pole 100 device is fully compatible with existing DMR radios.
- > The E-Pole 100 device has an internal backup battery that can support continued working for a period of time in case of an external power outage.
- > The E-Pole 100 device supports multiple sources of power, including commercial electricity, storage battery, solar energy.
- > Has a GSM Interface to support backhaul connection via public network.
- > The E-Pole 100 supports reporting alarm information like battery level, link status and GSM alarms.
- > Flexible mesh network topologies.

## Industries



Tunnels



Mountainous Regions



Forests



High-rise Buildings

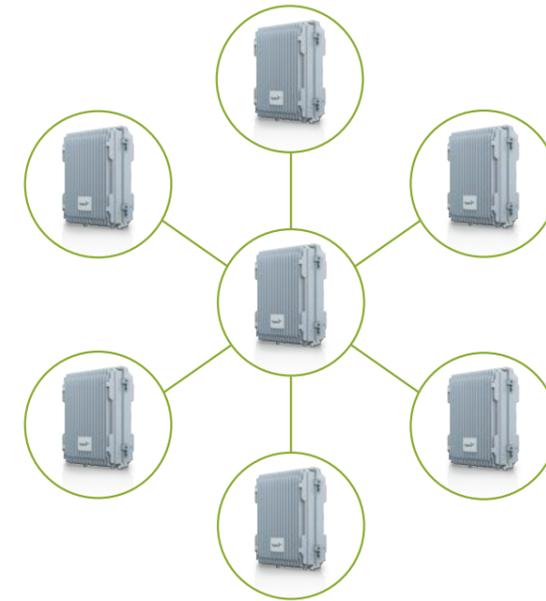


Country Borders

## Chain Network



## Mesh Network



## Hybrid Network



# E-Pole 100 Specifications

Item	Specifications
<b>General</b>	
Private network mode	DMR Tier II
Network capacity	31
Power input	90-264 V AC/11.4-16.8 V DC
Backup battery capacity	2 Ah/10.8 V
Backup battery life	3-5 minutes
Frequency	136-174 MHz, 350-400 MHz, 410-470 MHz
Output power	5 W/10 W/20 W
Vocoder	AMBE++/NVOC
Channel spacing	12.5 KHz
Standby current	< 1 A
Frequency stability	±0.5 ppm
Antenna impedance	50 Ω
Dimensions	316 mm x 223 mm x 133 mm
Weight	7.3 kg
<b>Receiver</b>	
Sensitivity	-120 dBm
Adjacent channel selectivity	ETSI: 60 dB @ 12.5 KHz 70 dB @ 25 KHz
Intermodulation	≥ 70 dB
Spurious response rejection	≥ 70 dB
Blocking	≥ 84 dB
Conducted spurious emission (antenna port, idle mode)	9 KHz - 1 GHz ≤ -57 dBm 1 GHz - 12.75GHz ≤ -47 dBm

Item	Specifications
<b>Transmitter</b>	
Output power (low)	5 W
Output power (medium)	10 W
Output power (high)	20 W
Adjacent channel power	60 dB @ 12.5 kHz
	70 dB @ 25 kHz
<b>Environment</b>	
Operating temperature	-30°C to +60°C
Storage temperature	-40°C to +85°C
Shock & vibration	MIL-STD-810 C/D/E/F/G
Dust & water intrusion	IP56
Humidity	MIL-STD-810 C/D/E/F/G
<b>GSM</b>	
Frequency	850 / 900 / 1800 / 1900MHz
Standard	GSM



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