



MESH NETWORKING
RANGE EXTENDER



XBEE-PRO[®] DIGIMESH[®] 2.4 RANGE EXTENDER

Easy-to-use plug-in router expands the reach of DigiMesh 2.4 GHz networks

Digi's XBee-PRO DigiMesh 2.4 range extender is used to create or expand a wireless DigiMesh network. This easy-to-use network extender acts as a routing node, providing users with expanded network range and adding redundancy to a mesh network.

DigiMesh is an innovative, peer-to-peer networking protocol that increases stability by forming self-healing, self-discovering mesh networks. DigiMesh features dense network operation and support for sleeping routers, extending the operational life of battery dependent networks.

The XBee-PRO DigiMesh 2.4 range extender enables seamless communication between other DigiMesh 2.4 based devices, such as ConnectPort[®] X gateways, XBee[®] adapters, and XBee and XBee-PRO wireless modules. By using Digi Device CloudSM, users can securely access and manage devices in their DigiMesh network from anywhere in the world.

BENEFITS

- Extends the range and strength of DigiMesh 2.4 GHz wireless networks
- Creates redundant network pathways for more reliable mesh networking
- Plugs into a standard power outlet for easy installation
- Easy-to-use commissioning button provides a simple method for joining an existing DigiMesh 2.4 network
- Secure mounting tab prevents accidental unplugging and theft (North America unit only)
- Small form factor for unobtrusive deployment

RELATED PRODUCTS



Gateways



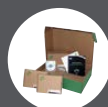
Modules



Adapters

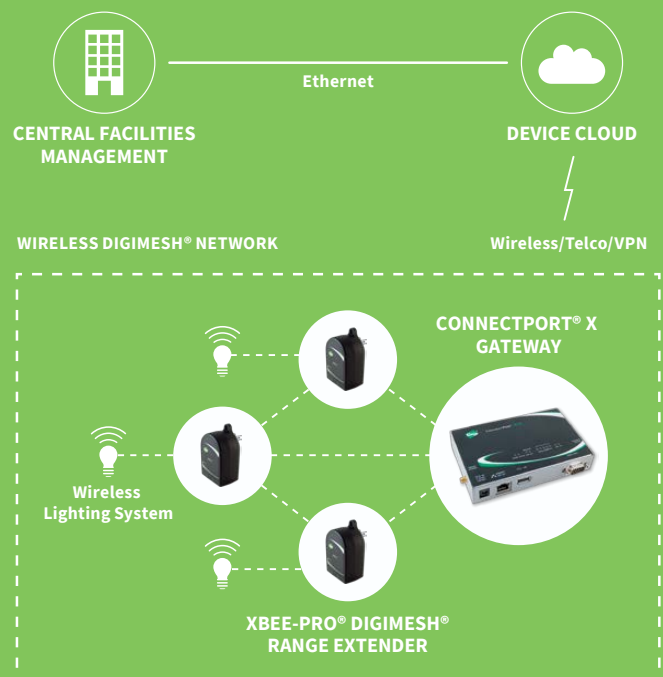


Modems



Development Kits

APPLICATION EXAMPLE



SPECIFICATIONS

XBee-PRO® DigiMesh® 2.4 GHz Range Extender

PERFORMANCE

DATA RATE	250 Kbps
INDOOR/URBAN RANGE	300 ft (90 m); 200 ft (60 m) international variants
OUTDOOR/RF LINE-OF-SIGHT RANGE	1 mile (1.6 km); 2500 ft (750 m) international variants
TRANSMIT POWER	63 mW (+18 dBm); 10 mW (+10 dBm) international variants
RECEIVER SENSITIVITY	-100 dBm

FEATURES

PUSH BUTTON	Device reset, configuration reset to factory defaults, identification/commissioning mode
LEDS	Power: Solid when power is supplied; Associate: Blinks when unit is connected and associated to an RF network
FREQUENCY BAND	2.4 GHz ISM
INTERFACES	Network interoperable with DigiMesh 2.4 devices
ANTENNA TYPE	Internal wire antenna
LOCKING MECHANISM	Unit secures to power outlet using center outlet screw (North America only)

GENERAL

POWER INPUT	Universal AC input (85VAC to 265VAC)
DIMENSIONS (L X W X H)	2.87 in x 1.97 in x 1.37 in (7.30 cm x 5.00 cm x 3.50 cm)
WEIGHT	2.50 oz (70.87 g)
OPERATING TEMPERATURE	0° C to 70° C (32° F to 158° F)
RELATIVE HUMIDITY	5% to 95% (non-condensing)

AGENCY APPROVALS

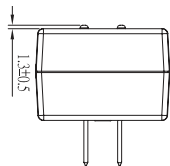
FCC (USA)	Yes
IC (CANADA)	Yes
ETSI (EUROPE)	Yes, international variants
TELEC (JAPAN)	Yes, international variants
C-TICK (AUSTRALIA)	Yes

PART NUMBERS

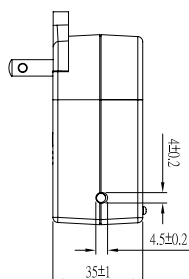
DESCRIPTION

XR-M14-CW1P1	XBee-PRO DigiMesh 2.4 Range Extender, US Plug
XR-M14-CW1P2	XBee-PRO DigiMesh 2.4 Range Extender, EU Plug
XR-M14-CW1P3	XBee-PRO DigiMesh 2.4 Range Extender, UK Plug
XR-M14-CW1P4	XBee-PRO DigiMesh 2.4 Range Extender, Australia Plug
XR-M14-CW1P5	XBee-PRO DigiMesh 2.4 Range Extender, Japan Plug

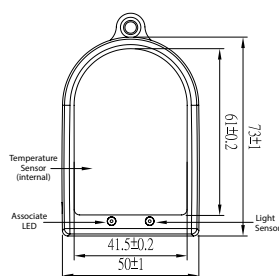
XBee-PRO Range Extender - Top
(North America unit only)



XBee-PRO Range Extender - Side



XBee-PRO Range Extender - Front



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