



MESH NETWORKING  
RANGE EXTENDER



# XBEE-PRO<sup>®</sup> DIGIMESH<sup>®</sup> 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.

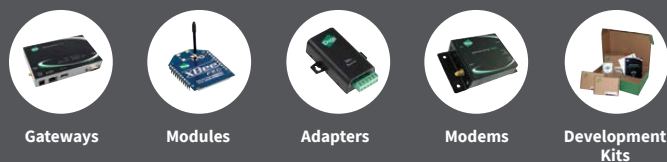
DigiMesh is an innovative, peer-to-peer networking protocol that increases stability by forming self-healing, self-discovering mesh networks. DigiMesh features dense network operation and support for sleeping routers, extending the operational life of battery dependent networks.

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

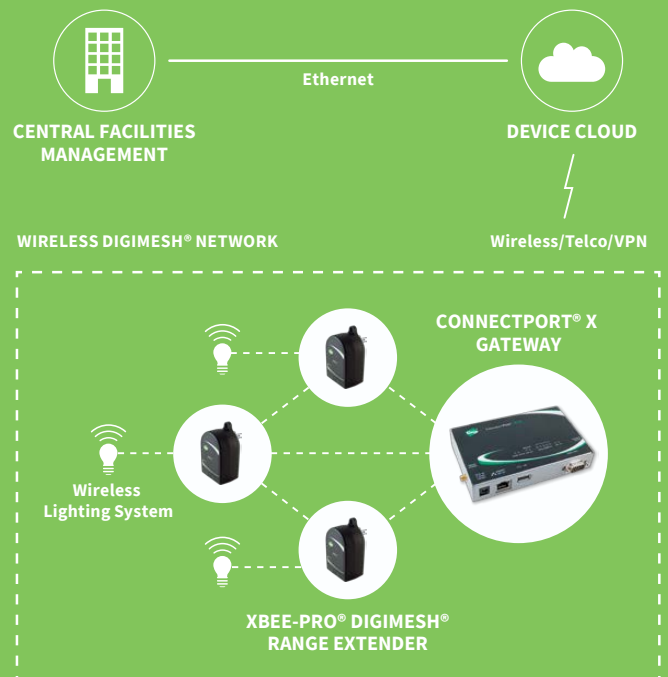
## BENEFITS

- 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



## APPLICATION EXAMPLE



## SPECIFICATIONS

# XBee-PRO® DigiMesh® 2.4 GHz Range Extender

### PERFORMANCE

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

### FEATURES

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

### GENERAL

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

### AGENCY APPROVALS

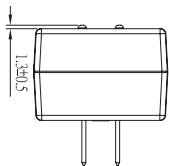
<b>FCC (USA)</b>	Yes
<b>IC (CANADA)</b>	Yes
<b>ETSI (EUROPE)</b>	Yes, international variants
<b>TELEC (JAPAN)</b>	Yes, international variants
<b>C-TICK (AUSTRALIA)</b>	Yes

## PART NUMBERS

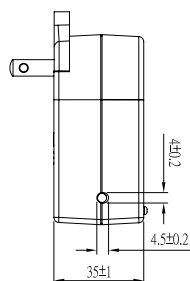
## DESCRIPTION

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

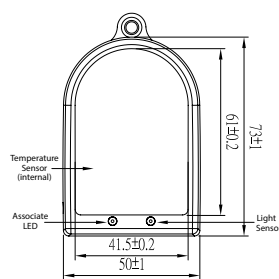
XBee-PRO Range Extender - Top  
(North America unit only)



XBee-PRO Range Extender - Side



XBee-PRO Range Extender - Front



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