

XBee® Smart Energy Range Extender

ZigBee Smart Energy Certified Range Extender

Smart Energy Range Extender expands the area over which a Smart Energy network can operate by filling RF gaps and supporting redundant network links.



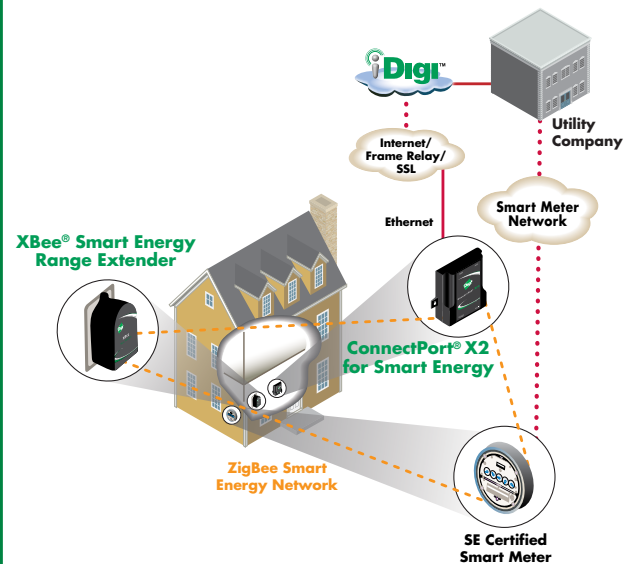
Overview

The XBee Smart Energy Range Extender provides a simple method for expanding the range of a Smart Energy network. The XBee Smart Energy Range Extender plugs into a standard electrical outlet for quick and easy installation. Once installed, it then establishes itself as a routing node, providing expanded network range and adding redundancy to a Smart Energy network.

To ensure interoperability, the XBee Smart Energy Range Extender utilizes the ZigBee Smart Energy Public Application Profile and is built upon the ZB-PRO extended-range hardware platform.

As part of Digi's growing Smart Energy offering, the XBee Smart Energy Range Extender can be coupled with other ZigBee Smart Energy certified devices like the ConnectPort® X2 gateway, as well as connect to cloud management features with the iDigi™ Platform.

Application Highlight



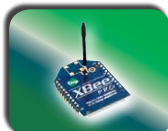
Features/Benefits

- Extends the range and strength of ZigBee Smart Energy networks
- Certification as a ZigBee Smart Energy device ensures interoperability
- Creates additional 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 Smart Energy network

Related Products



SE Gateways



SE Modules



iDigi Solutions



Starter Kits



Smart Plug



Sensors



Specifications

XBee® Smart Energy Range Extender

| Performance | |
|-----------------------------------|---|
| RF Data Rate | 250 Kbps |
| Indoor/Urban Range | Up to 300 ft (90 m) / 200 ft (60m) Int'l variants |
| Outdoor/RF Line-of-Sight Range | Up to 1 mile (1.6 km) / 2500 ft (750 m) Int'l variants |
| Transmit Power | 63 mW (+18 dBm) /10 mW (+10 dBm) Int'l variants |
| Receiver Sensitivity (1% PER) | -102 dBm |
| Features | |
| Interfaces | ZigBee Smart Energy Application Profile |
| Frequency Band | 2.4 GHz (ISM) |
| ZigBee Public Application Profile | Smart Energy |
| LEDs | Power: ZigBee link/activity Associate: Blinks when unit is connected and associated to an RF Network |
| Push Button | Join, Permit join, Leave network |
| Antenna Options | Internal |
| Locking Mechanism | Unit secures to power outlet using center outlet screw (U.S. only) |
| General | |
| 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) |
| Power Input | Universal AC input (85VAC to 265VAC) |
| Environment | 0° C to 70° C (32° F to 158° F) |
| Relative Humidity | 5% to 95% (non-condensing) |
| Regulatory Approvals | |
| FCC (USA) | Yes |
| IC (Canada) | Yes |
| CE/ETSI (Europe) | Yes, Int'l variant |
| C-TICK (Australia) | Yes |
| Telec (Japan) | Yes, Int'l variant |

Visit www.digi.com for part numbers.

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