

Digi XBee Smart Plug™

ZigBee® Energy Manager

The Digi XBee Smart Plug is an easy-to-deploy, plug-in ZigBee energy management device and network extender.



Overview

The Digi XBee Smart Plug is an intelligent power outlet and ZigBee network extender. It enables users to measure and control connected electrical devices, maximizing energy efficiency and reducing cost, as well as extending the range of a wireless ZigBee network. The integrated ambient light sensor on the Digi XBee Smart Plug provides real-time environmental data within the deployment area.

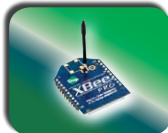
Simply plug the Digi XBee Smart Plug into a standard power outlet and add the device to your ZigBee network. The unit integrates with ConnectPort® X gateways to centralize input from multiple Digi XBee Smart Plugs into an energy management solution. Appliance performance data, such as load consumption, power status, operating range, and erratic behavior is communicated over the network. Users are able to manage and control their devices from a central location, ensuring peak performance and efficiency.

The XBee® product family is part of Digi's unsurpassed offering of Drop-in Networking solutions, providing users with seamless, end-to-end communication between devices. XBee device adapters provide wireless connectivity to electronic devices in wired networks. ConnectPort X gateways enable users to access and configure remote XBee devices in a ZigBee network.

Related Products



Gateways



Modules



Adapters



Dev Kits

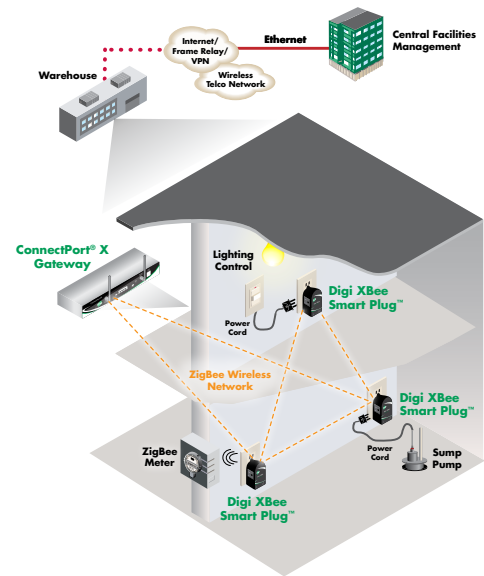


Network Extenders



Sensors

Application Highlight



Features/Benefits

- Wireless energy management device
- Extends the range and strength of a ZigBee network
- Creates additional network pathways for more reliable mesh networking
- Plugs into a standard power outlet for easy set up
- Small form factor for unobtrusive deployment
- Secure mounting tab prevents accidental unplugging and theft
- 120VAC, 8A rated socket for appliances
- Integrated current and ambient light sensors



Platform

Digi XBee Smart Plug™

Performance	
RF Data Rate	250 Kbps
Indoor/Urban Range	Up to 400 ft (120 m)
Transmit Power	63 mW (18 dBm), 100 mW EIRP
Receiver Sensitivity (1% PER)	-102 dBm
Features	
Interfaces	ZigBee Pro Feature Set, Digi XBee ZB
Frequency Band	2.4 GHz (ISM)
LEDs	Outlet (Yellow): Solid when user AC socket is powered; Associate (Green): Solid when external power is supplied, blinks when unit is connected and associated to an RF network
Controls	Push Button - Device reset, Configuration reset to factory defaults, Identification/Commissioning mode
Antenna Options	Internal
Locking Mechanism	Unit secures to electrical outlet using center outlet screw (U.S. model only)
Integrated Sensors	
Current Sensor	Detects current draw from user AC socket, Range: 0A to 8A
Ambient Light Sensor	Range of spectral bandwidth: 360 to 970 nm (similar to human eye) Wavelength of peak sensitivity: 570 nm
Networking & Security	
Networking Topologies	Mesh
Number of Channels	12 - 5 MHz channels (Direct Sequence Spread Spectrum)
General	
Dimensions (L x W x H)	3.07 in x 2.42 in x 1.47 in (9.40 cm x 6.14 cm x 3.73 cm)
Weight	2.50 oz (70.87 g)
Power Input	120VAC, 60 Hz
Load Rating	Resistive: 120VAC, 8A; Inductive (0.75 pf): 120VAC, 960VA Motor: 1/3 HP (7.2 FLA)
Operating Temperature	0° C to 40° C (32° F to 104° F)
Relative Humidity	5% to 95% (non-condensing)
Regulatory Approvals	
FCC Class B (USA)	Yes
IC Class B (Canada)	Yes
UL	UL listed 40HP, Category Code: ATNZ/7 - Appliance Controls, File: E321891

Visit www.digi.com for part numbers.

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