

Gateway Development Kit

Development Kit for ZigBee Gateways and Device Cloud

All the hardware, software, and documentation necessary to experience ZigBee to Internet connectivity, Device Cloud web services and Digi development tools.



Overview

The Gateway Development Kit is designed to make it easy to setup a ZigBee network, upload a custom DIA application, and provide seamless connectivity to Device Cloud by Etherios™ for Web Services integration to standard business applications over the Internet. The kit contains:

- ConnectPort® X4 ZigBee to Ethernet (or cellular/WiMAX) gateway
- Digi XBee Smart Plug™ (non-US versions substitute XBee® Range Extender)
- Battery-powered XBee temperature/light sensor
- Digi ESP Integrated Development Environment (IDE) for DIA/Python development
- Related cables, batteries and power supply

Users will explore three key aspects of Digi technology: ZigBee networking and gateway fundamentals, local customization on the gateway using DIA/Python software and Web Services. The kit also provides an example of how a business application would utilize real-time sensor data via Web Services and Google Apps.

Related Products



ZigBee RF Module Dev Kit



Gateways



XBee Modules



XBee Adapters

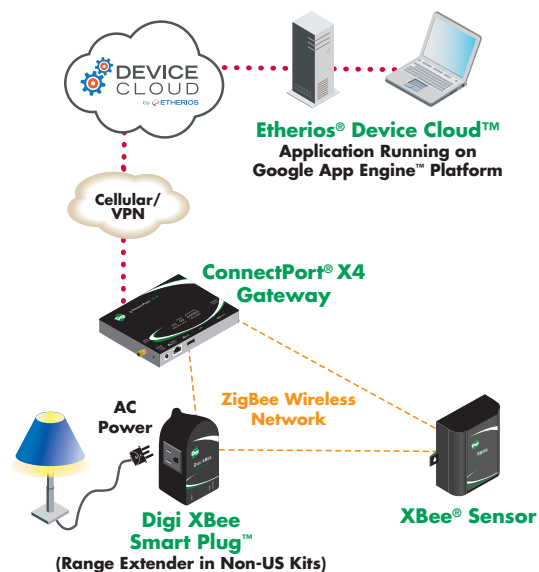


Range Extenders



Device Cloud Solutions

Application Highlight

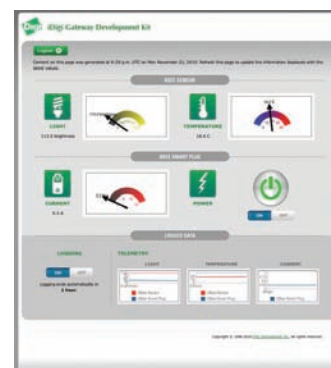
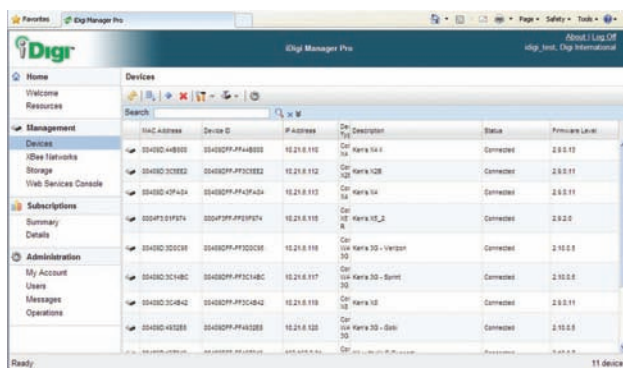


Features/Benefits

- Jump-start application development with pre-packaged kit
- Learn how to discover and configure devices in a ZigBee network
- Read temperature and light values from the ZigBee network via Device Cloud
- Provide IP (Ethernet or cellular/WiMAX) connectivity to the ZigBee network with a ConnectPort X4 gateway
- Google App Engine™ platform and supporting code provide a simple example of a business application working with Device Cloud
- Digi ESP™ for Python® simplifies Python development on Digi gateways



Product Type		ConnectPort® X4 Gateway	
General			
Network Protocols		UDP/TCP, DHCP	
Interfaces		Physical Interfaces: (1) RJ-45 Ethernet port, (1) DB-9 RS232 serial port, (1) USB port; RF Interfaces: (1) XBee-PRO® ZB 2.4 GHz, Optional generic GSM HSPA+, HSPA+/EV-DO 800/850/900/1700 (AWS)/1900/2100 MHz Gobi with Rx Diversity, or WiMAX	
LEDs		Ethernet status, Power, XBee link/activity	
Router/Security Features		NAT, Port forwarding, Access control lists (IP filtering)	
Management		HTTP/HTTPS web interface, Password access control, IP service port control, Optional secure enterprise management via Device Cloud	
Security		SSL tunnels, SSHv2, FIPS 197 (serial port)	
VPN		IPsec with IKE/ISAKMP, multiple tunnel support, DES, 3DES and up to 256-bit AES encryption, VPN pass-through, GRE forwarding	
Product Type		Digi XBee Smart Plug™ ZB (US Kits)	XBee® Range Extender (Non-US kits)
General			
Current Sensor		Detects current draw from user AC socket, Range: 0 A to 8 A	N/A
Ambient Light Sensor		Range of spectral bandwidth: 360 to 970 nm (similar to human eye) Wavelength of peak sensitivity: 570 nm	
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	Power, XBee link/activity
Load Rating		Resistive: 120 VAC, 8A; Inductive (0.75 pf): 120 VAC, 960 VA Motor: 1/3 HP (7.2 FLA)	N/A
Product Type		XBee® Light/Temperature Sensor	
Performance			
Indoor/Urban Range		133 ft (40 m)	
Outdoor RF Line-of-Sight Range		400 ft (120 m)	
LEDs		Power, XBee link/activity	
Temperature Sensor		Range: -18° C to +55° C; (-0.4° F to +131° F); Accuracy: +/- 2° C	
Ambient Light Sensor		Range of spectral bandwidth: 360 to 970 nm (similar to human eye) Wavelength of peak sensitivity: 570 nm	
Power Requirements		3 x AA alkaline 1.5 V batteries (batteries included with kit)	



Visit www.digi.com for part numbers.

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