iDigi® Gateway Development Kit

Development Kit for ZigBee Gateways and iDigi Platform

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

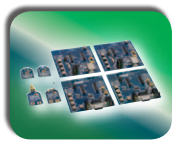
Overview

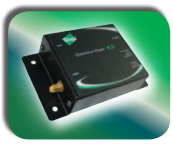
The iDigi Gateway Development Kit is designed to make it easy to setup a ZigBee network, upload a custom iDigi® Dia application, and provide seamless connectivity to the iDigi® Device Cloud™ for web services integration to standard business applications over the Internet. The kit contains:

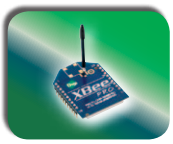
- ConnectPort® X4 ZigBee to Ethernet (or cellular/WiMAX) gateway
- Digi XBee Smart Plug™ (non-US versions substitute XBee® Range Extender)
- Battery-powered XBee temperature/light sensor
- Digi ESP Integrated Development Environment (IDE) for iDigi Dia/Python development
- Related cables, batteries and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

iDigi Gateway Development Kit users will explore three key aspects of Digi technology: ZigBee networking and gateway fundamentals, local customization on the gateway using iDigi Dia/Python software, and iDigi 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

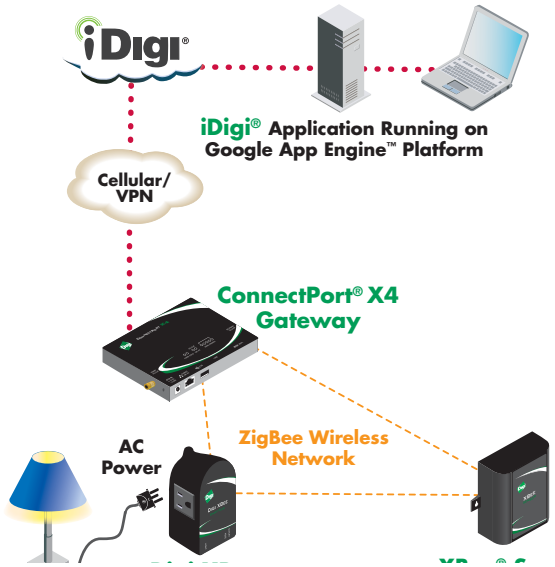

XBee Modules

XBee Adapters

Range Extenders

iDigi Solutions

Application Highlight



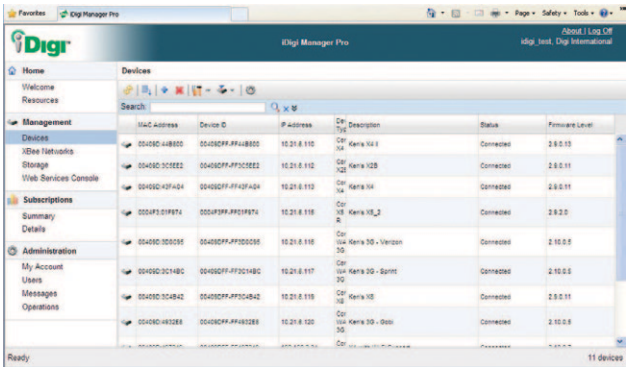
Features/Benefits

- 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 the iDigi 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 iDigi
- 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 iDigi® 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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