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.





Features/Benefits

- Jump-start application development with prepackaged 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-D0 800/850/900/1700 (AWS)/1900/2100 MHz Gobi with Rx Diversity, or WiMAX				
LEDs	Ethernet status, Pow	Ethernet status, Power, XBee link/activity				
Router/Security Features	NAT, Port forwarding, Acces	NAT, Port forwarding, Access control lists (IP filtering)				
Management	HTTP/HTTPS web interface, Password a Optional secure enterprise mana	access control, IP service port control, gement via iDigi® Device Cloud™				
Security	SSL tunnels, SSHv2,	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/Ten	XBee® Light/Temperature Sensor				
Performance						
Indoor/Urban Range	133 ft	(40 m)				
Outdoor RF Line-of-Sight Range	400 ft (400 ft (120 m)				
LEDs	Power, XBee	Power, XBee link/activity				
Temperature Sensor	Range: -18° C to +55° C; (-0.4°	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 batterie	3 x AA alkaline 1.5 V batteries (batteries included with kit)				

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Visit www.digi.com for part numbers.

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