

Digi Tank Solutions Kit

Development Kit for Tank Monitoring and Management

Quick, easy way to experience ZigBee to Internet, iDigi® web services, and Digi development tools for wireless tank monitoring.



Overview

The Digi Tank Solutions Kit provides easy development environment using Digi hardware and software components to simulate a real wireless tank monitoring application.

The Digi Tank Solutions Kit contains:

- ConnectPort® X4 ZigBee to Ethernet gateway
- XBee® ZigBee RF module and development board
- USB XStick® with embedded ZigBee
- Digi ESP™ Integrated Development Environment (IDE) for iDigi Dia/Python™ customization on Digi gateways
- Sample application for tank sensor acquisition

Kit users will set up a wireless ZigBee network, remotely manage the network through the iDigi platform, and run a pre-packaged iDigi Dia software project to simulate tank control valves. Finally, users will see how a business application uses the data presented by the iDigi platform to monitor and manage a tank environment.

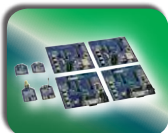
Application Highlight



Features/Benefits

- Jump-start application development with pre-packaged kit
- Learn how to discover and configure devices in a ZigBee network through the ConnectPort X4 gateway
- XBee ZigBee RF module and development board simulate tank actuator outputs and inputs
- Google App Engine™ platform and supporting code provide a simple example of a business application working with iDigi platform
- Provides an introduction to iDigi Dia (Device Integration Application) device connectivity software
- Digi ESP provides a complete IDE (Integrated Development Environment) for Python development

Related Products



ZigBee RF Module Development Kit



Gateway Development Kit



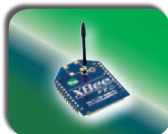
iDigi Solutions



Adapters



Range Extenders



Modules



Product Type ConnectPort® X4 Gateway	
General	
Network Protocols	UDP/TCP, DHCP
Interfaces	Physical Interfaces: (1) RJ-45 Ethernet port, (1) DB-9 RS-232 serial port, (1) USB port RF interfaces: (1) XBee-PRO® ZB, 2.4 GHz
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® platform
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 XBee® ZigBee RF Module and Development Board	
Performance	
RF Data Rate	250 Kbps
Indoor/Urban Range	Up to 133 ft (40 m)
Outdoor/Line-of-Sight Range	Up to 400 ft (120 m)
Transmit Power	1.25 mW (+1 dBm) / 2 mW (+3 dBm) boost mode
Receiver Sensitivity (1% PER)	-96 dBm in boost mode
Product Type XStick® ZB USB Adapter	
Performance	
RF Data Rate	250 Kbps
Indoor/Urban range	66 ft (20 m)
Outdoor/Line-of-Sight Range	164 ft (50 m)
Transmit Power	2.8 mW (4.5 dBm)
Receiver Sensitivity (1% PER)	-90 dBm
Product Type Digi ESP™ for Python	
Feature Highlight	
Digi ESP IDE	The Integrated Development Environment (IDE) based on Eclipse and optimized for Python software and iDigi Dia projects development on Digi embedded gateways and ConnectPort X gateways.
iDigi Dia Software	Written in Python, Device Integration Application (Dia) is software that simplifies connecting devices (sensors, PLCs, etc.) to Digi communication devices.
Package Manager	The Package Manager is a Digi ESP plug-in which allows the management of all the different software, documentation, updates and patch packages to keep the Digi ESP and rest of components updated.
Python Interpreters	The Python Interpreters that currently are being used by the Digi Python devices.

Visit www.digi.com for part numbers.

DIGI SERVICE AND SUPPORT - You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty. www.digi.com/support

Digi International
877-912-3444
952-912-3444
info@digi.com

**Digi International
France**
+33-1-55-61-98-98
www.digi.fr

**Digi International
KK**
+81-3-5428-0261
www.digi-intl.co.jp

**Digi International
(HK) Limited**
+852-2833-1008
www.digi.cn



91001659
A1/1210

BUY ONLINE • www.digi.com

© 2010 Digi International Inc.

All rights reserved. Digi, Digi International, the Digi logo, the Making Wireless M2M Easy logo, the iDigi logo, ConnectPort, Digi ESP, XStick, iDigi, XBee and XBee-PRO are trademarks or registered trademarks of Digi International Inc. in the United States and other countries worldwide. All other trademarks are the property of their respective owners. All information provided is subject to change without notice.

