

# Digi Tank Solutions Kit

Development Kit for Tank Monitoring and Management

Quick, easy way to experience ZigBee to Internet, Web Services, and Digi development tools for wireless tank monitoring.



## Overview

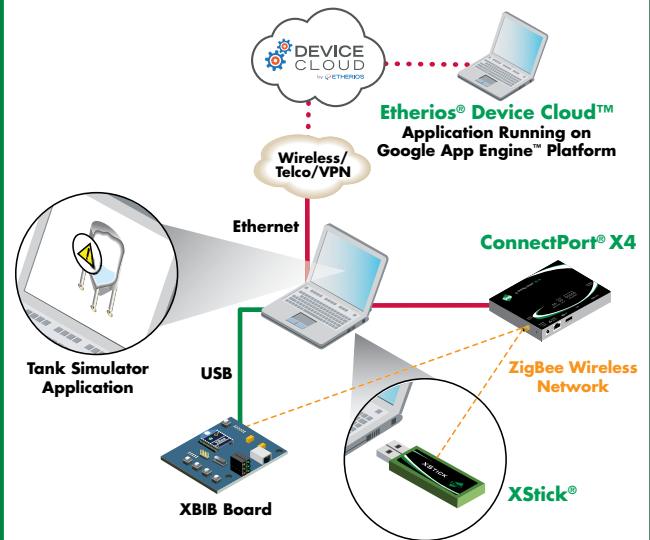
The Digi Tank Solutions Kit provides easy development environment using Digi hardware and software components to simulate a real wireless tank monitoring application.

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 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 Device Cloud by Etherios™ and run a pre-packaged DIA software project to simulate tank control valves. Finally, users will see how a business application uses the data presented by Device Cloud 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 Device Cloud
- Provides an introduction to 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



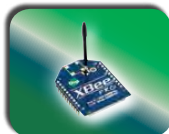
Device Cloud Solutions



Adapters



Range Extenders



Modules



Product Type		ConnectPort® X4 Gateway
<b>General</b>		
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 Device Cloud 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
<b>Performance</b>		
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
<b>Performance</b>		
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
<b>Feature Highlight</b>		
Digi ESP IDE	The Integrated Development Environment (IDE) based on Eclipse and optimized for Python software and DIA projects development on Digi embedded gateways and ConnectPort X gateways.	
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.	

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