

XStick®

USB to XBee® Wireless PAN Adapter for Laptops & PCs

The XStick provides local connectivity to a wireless XBee network from a laptop or PC, enabling local commissioning of the network and its devices.



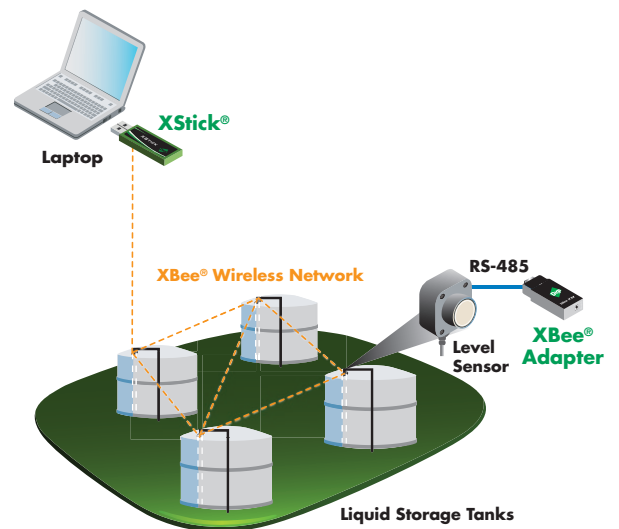
Overview

Digi's XStick is an easy-to-use USB to XBee Wireless Personal Area Network (WPAN) adapter, providing local connectivity to wireless networks. Simply plug the XStick into the USB port of a laptop or PC for instant access to an XBee network and its connected devices. This compact, USB-powered wireless adapter enables local network configuration, diagnostics or device monitoring.

Two versions are available. The XStick 802.15.4 version is compatible with XBee and XBee-PRO® 802.15.4 devices and uses a fast multipoint network. The XStick ZB version is compatible with XBee or XBee-PRO ZB devices and utilizes the ZigBee PRO Feature Set for robust mesh networks.

XStick and XBee products are part of Digi's Drop-in Networking family of solutions, offering users seamless wireless communication between devices, including adapters, routers and gateways.

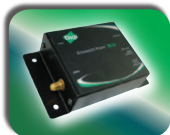
Application Highlight



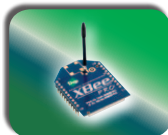
Features/Benefits

- USB to XBee Wireless Personal Area Network adapter (WPAN)
- Provides local connectivity for access, configuration and network commissioning
- Available in self-healing, self-configuring ZigBee mesh or fast 802.15.4 multipoint versions
- USB powered
- LEDs for power status and network association

Related Products



Gateways



Modules



Adapters



Development Kits



Network Extenders



Sensors



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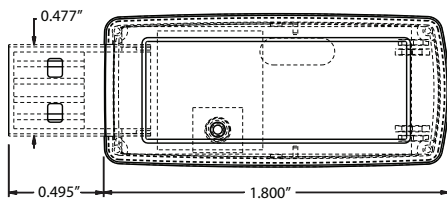
Specifications

XStick® ZB

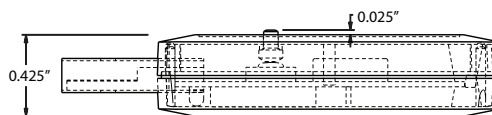
XStick® 802.15.4

Performance		
Indoor/Urban Range	66 ft (20 m)	49 ft (15 m)
Outdoor/RF Line-of-Sight Range	164 ft (50 m)	131 ft (40 m)
Transmit Power Output (Nominal 25° C)	2.8 mW (4.5 dBm)	1 mW (0 dBm)
RF Data Rate	250 Kbps	
Serial Interface Data Rate (Software Selectable)	1200 bps - 115.2 Kbps	
Receiver Sensitivity	-90 dBm	
Power Requirements		
Supply Voltage	5V from USB port of PC	
Transmit Current	51 mA	64 mA
Receive Current	47 mA	64 mA
Power-Down Current	XStick should not be put into sleep mode	
General		
Frequency Band	2.4 GHz ISM	
Dimensions (L x W x H)	2.29 in x 0.80 in x 0.43 in (5.83 cm x 2.03 cm x 1.08 cm)	
Operating Temperature	-40° C to +85° C	
Connector	USB Type A	
Antenna Options	Internal only	
Networking & Security		
Supported Network Topologies	ZigBee Mesh	Point-to-Point, Point-to-Multipoint, Peer-to-Peer
Number of Channels (Software Selectable)	16	
Addressing Options	PAN, Channel, Address	
Regulatory Approvals		
FCC Part 15.247 (USA)	Yes (MCQ-XSTICK2)	Pending (MCQ-XSTICK1)
IC (Canada)	Yes (1846A-XSTICK2)	Pending (1846A-XSTICK1)
ETSI (Europe)	Yes	Pending
TELEC (Japan)	Yes	No

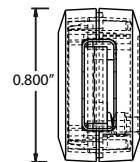
XStick - Top View



XStick - Side View



XStick - Connector



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