

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.



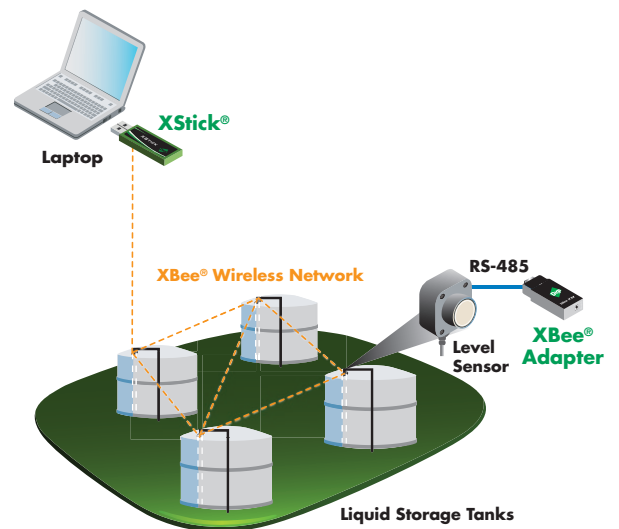
Overview

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.

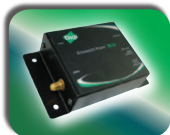
Application Highlight



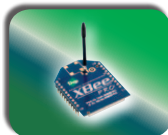
Features/Benefits

- 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



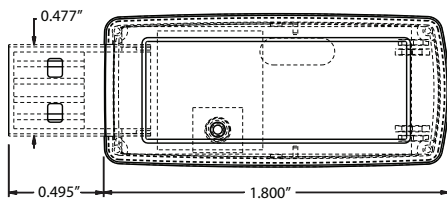
Specifications

XStick® ZB

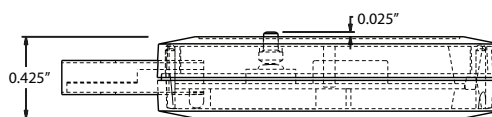
XStick® 802.15.4

| 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 |

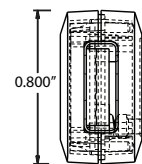
XStick - Top View



XStick - Side View



XStick - Connector



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