XSTICK®

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

Digi's XStick is an easy-to-use USB to Digi 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 Digi 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 Digi XBee and Digi XBee-PRO® 802.15.4 devices and uses a fas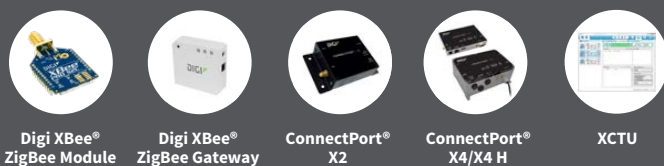t multipoint network. The XStick ZigBee version is compatible with Digi XBee or Digi XBee-PRO ZigBee devices and utilizes the ZigBee PRO Feature Set for robust mesh networks.

XStick is part of Digi's XBee family of solutions, offering users seamless wireless communication between devices, including adapters, routers and gateways.
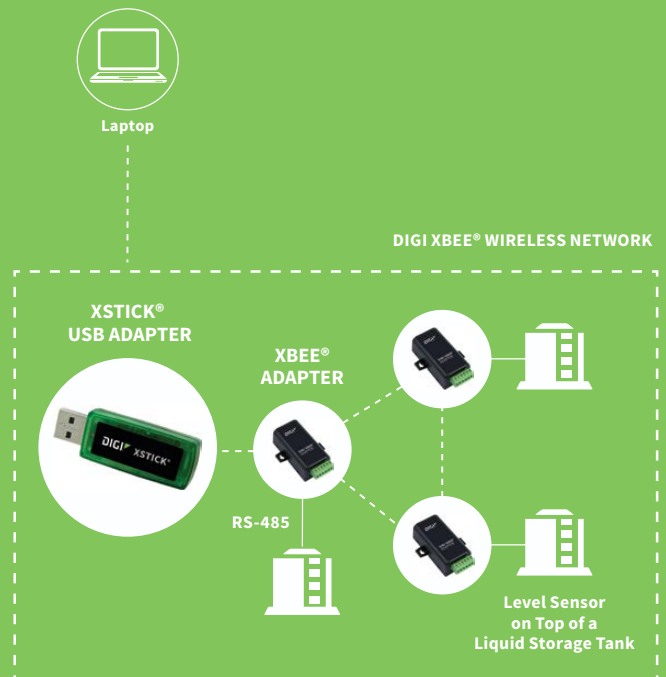
BENEFITS

– 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

APPLICATION EXAMPLE

Laptop

DIGI XBEE® WIRELESS NETWORK

XSTICK®
USB ADAPTER

XBEE®
ADAPTER

RS-485

Level Sensor
on Top of a
Liquid Storage Tank

RELATED PRODUCTS

Digi XBee®
ZigBee Module

Digi XBee®
ZigBee Gateway

ConnectPort®
X2

ConnectPort®
X4/X4 H

XCTU

| SPECIFICATIONS	XStick® ZigBee	XStick® 802.15.4
PERFORMANCE		
INDOOR/URBAN RANGE*	Up to 66 ft (20 m)	Up to 49 ft (15 m)
OUTDOOR/RF LINE-OF-SIGHT RANGE*	Up to 164 ft (50 m)	Up to 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)	MCQ-XSTICK2	MCQ-XSTICK1
IC (CANADA)	1846A-XSTICK2	1846A-XSTICK1
ETSI (EUROPE)	Yes	Yes
TELEC (JAPAN)	Yes	No

XStick - Top View

0.477″
0.495″   1.800″

XStick - Side View

0.025″
0.425″

XStick - Connector

0.800″
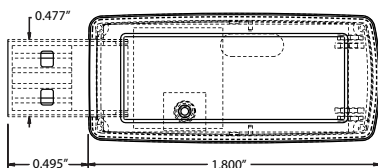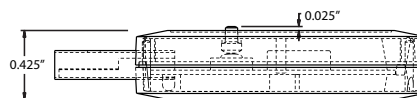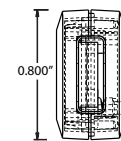
*Range figure estimates are based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including indoor and outdoor structures such as walls, trees, buildings, hills, and mountains.

PART NUMBERS	DESCRIPTION
XU-Z11	XStick USB Adapter, ZigBee
XU-A11	XStick 802.15.4

DIGI®

Mouser Electronics

Authorized Distributor

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