



## DIGI XBEE LPX 900

# Specifications



Manage and configure Digi XBee LPX 900 modules with Digi XBee Studio

Specifications	Digi XBee LPX 900
<b>HARDWARE</b>	
PROCESSOR	EFR32FG13P231F512 transceiver at 40 MHz
FREQUENCY BAND	902 MHz – 928 MHz
AVAILABLE FORM FACTORS	Through-hole (TH)
ANTENNA OPTIONS	TH: SMA, U.FL
WEIGHT	TH: 3.1 grams (0.109 oz)
DIMENSIONS	TH: 2.438 cm x 2.761 cm (0.960 in x 1.087 in)
<b>PERFORMANCE</b>	
RF DATA RATE	Low data rate: 10 kbps; middle data rate: 110 kbps; high data rate: 250 kbps
UART DATA RATE	Up to 921.6 kbps
SPI DATA RATE	Up to 5 Mbps
LINE-OF-SIGHT RANGE*	Up to 17 km (10.5 mi) rural, up to 3 km (1.8 mi) urban
INDOOR RANGE	Up to 140 m (460 ft)
TRANSMIT POWER	Up to 19 dBm ERP
RECEIVER SENSITIVITY	Low data rate: –113 dBm; middle data rate: –108 dBm; high data rate: –104 dBm
BLOCKING SELECTIVITY	Below 900 MHz and above 930 MHz; >70 dB
<b>FEATURES**</b>	
DIGITAL I/O	15
AVAILABLE CHANNEL FREQUENCIES	Low and middle data rate: 101**; high data rate: 50
ANALOG INPUTS	(4) 10-bit ADC inputs
OPERATING TEMPERATURE	–40 °C to 85 °C (–40 °F to 185 °F)
NETWORKING TOPOLOGIES	Point-to-point/point-to-multipoint, DigiMesh, HP protocol compatible
SECURITY	256-bit AES encryption
<b>POWER</b>	
SUPPLY VOLTAGE	2.1 – 3.6 VDC, 3.3 VDC typical
TRANSMIT CURRENT	110 mA
RECEIVE CURRENT	28 mA
SLEEP CURRENT	1.2 uA
<b>REGULATORY APPROVALS***</b>	
FCC (USA)	Yes
ISED (CANADA)	Yes
ROHS	Yes

\*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.

\*\*Digi LPX 900 is compatible with Digi 900HP devices with updates to replace [Digi XBee-PRO 900HP](#).

\*\*\*Visit [digi.com/resources/certifications](http://digi.com/resources/certifications) for latest updates.

## DIGI XBEE LPX 900

# Digi XBee Studio

## Digi XBee Studio

Free multi-platform application that enables developers to manage Digi XBee devices through a simple-to-use graphical interface

**Digi XBee Studio** is the definitive tool to manage and configure Digi XBee devices. This next generation configuration tool suite supersedes **Digi XCTU** and offers an advanced set of tools that make it easy to set up, configure, communicate with and test Digi XBee modules and devices.

The first thing you need to do in order to work with XBee devices in XBee Studio is to add them to the tool. In XBee Studio, this is easier than ever.

### Simple setup and connectivity

Just after startup, XBee Studio will automatically look for XBee devices connected to your computer. As modules are found, they will appear in the Device Browser view. The Device Browser view displays all the devices connected to your computer.

### View and manage your Digi XBee devices

View all of your Digi XBee devices in one table, or if they are geo-located, you can switch to the map view and see the location of each one.

Digi XBee Studio also offers a simple and step-by-step way to access and manage devices, including additional options for configuration, diagnostics, development, remote management and other utilities.

### Proven experience and expert support

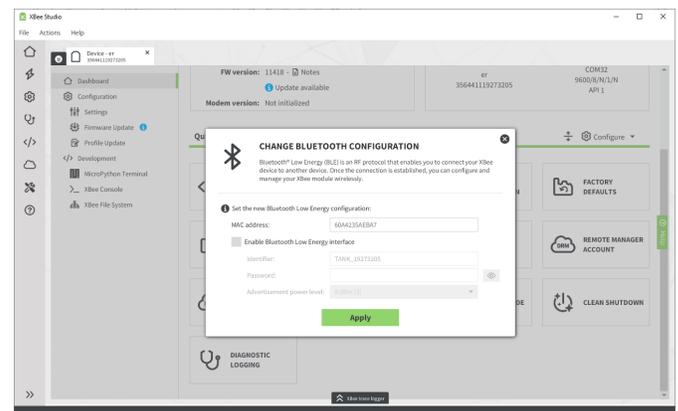
Our decades of embedded experience and millions of deployed devices tell our story; Digi is a trusted solutions provider dedicated to simplifying the way OEMs design, build, deploy and maintain secure connected products.

**Digi Wireless Design Services (WDS)** is an engineering team that provides additional connectivity integration support, certification assistance, and custom design and build services to get your products to market smarter and faster. The expert team of WDS engineers can support you wherever you are along your development path.



### Key features

- **Deploy on multiple platforms:** Digi XBee Studio is compatible with the most popular operating systems, including Microsoft Windows, macOS and Linux.
- **Discover your devices:** Automatically discover XBee devices connected to your computer, regardless of their port connections or configured settings.
- **Configure any device:** Manage and configure multiple XBee devices at once, including devices enrolled in your Digi Remote Manager account located anywhere in the world.
- **Communicate with your devices:** Use the new smart XBee console to communicate with your devices regardless of whether they are configured for API mode or transparent mode..
- **Access a range of tools:** Use embedded tools to perform operations like creating XBee profiles or recovering your devices.
- **Get automatic updates:** Automatically update the application itself, as well as the radio firmware library, without downloading any extra files.



## DIGI XBEE LPX 900

# Digi XBee Ecosystem, Tools and Supporting Services

## Digi XBee Ecosystem

The world-renowned XBee module is part of a family of cellular modems and RF modules that provide ultimate flexibility for IoT application developers, with three programmable form factors, and a range of popular wireless protocols. The XBee family also includes IoT gateways and management tools to connect, monitor and manage your XBee network.

Learn more at [digi.com/xbee](http://digi.com/xbee).

## Digi XBee Tools



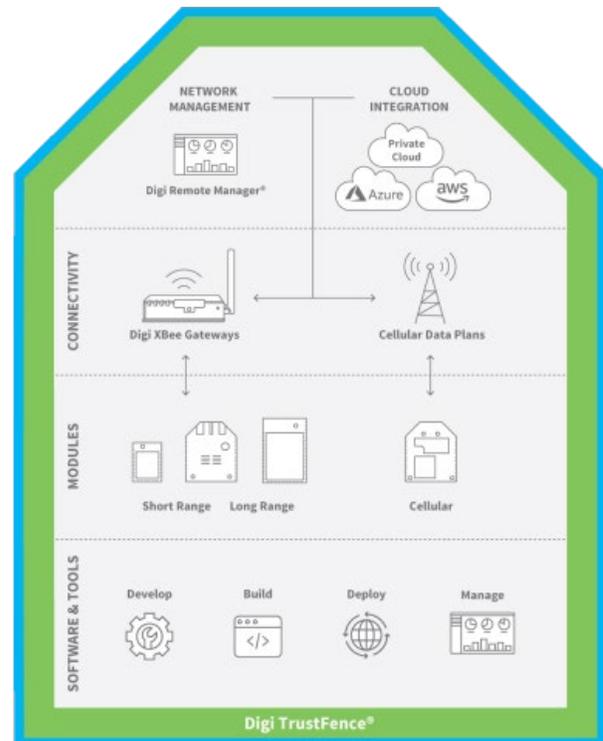
The **Digi XBee Ecosystem** is fully supported with the award-winning **Digi XBee Tools** suite. Designed to support the full product lifecycle, from prototyping and development to deployment and ongoing monitoring, Digi XBee Tools includes code libraries, testing and prototyping tools, product development and manufacturing support, and tools for deploying and managing end devices in the field.

## Digi Wireless Design Services

### Digi WDS supports new designs and redesigns

We offer services to support you wherever you are along your development path, with a record that speaks for itself.

- Proof of concept
- Architecture consultation
- Requirements definition
- System, software and electrical design
- Design reviews
- Certifications
- Prototype build
- Manufacturing test fixtures
- 250+ product development projects
- 100+ certification failure rescues
- 100 million connected devices around the globe



### Get to market faster with Digi WDS

**Digi Wireless Design Services** (WDS) has a proven history of helping clients speed down the path to success by guiding them through the technological and regulatory certification pitfalls that botch budgets and disrupt product introductions.

We begin by actively listening to your business and technical requirements, and then leverage our proven methodology, world-class engineering expertise and library of IP to design a cost-effective solution that is tailored to your specific needs. Accelerate toward the solution that is right for you and your customers.

Contact **Digi WDS** to find out how we can guide you to success.

## DIGI XBEE LPX 900

# Photos and Part Numbers

### Digi XBee LPX 900 images and dimensions



### Part Numbers

### Digi XBee LPX 900

#### DIGI XBEE XR 900 THROUGH-HOLE (TH)

XB-LPX-DMST-001	Digi XBee LPX 900 MHz, DigiMesh, TH, SMA
XB-LPX-DMUT-001	Digi XBee LPX 900 MHz, DigiMesh, TH, U.FL

For more information, visit [digi.com](https://digi.com).



For more information about Digi XBee LPX 900, visit [digi.com/lpx900](https://digi.com/lpx900).

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