Digi XBee for Wi-SUN

Build, deploy and manage your Wi-SUN network from end-to-end

With over 100 million devices already deployed in the field, Wi-SUN® revolutionizes how smart cities, utilities, buildings and industrial networks connect devices with secure IP-based wireless mesh networking that scales from sites to neighborhoods to entire regions.

Build   **Deploy**   **Manage**

Meet the industry's first complete Wi-SUN CERTIFIED™ solution — with purpose-built Digi XBee® modules for Wi-SUN, flexible Digi XBee Hive border routers, and a suite of developer tools including Digi Remote Manager® and Digi XBee Studio for configuration and remote management — all interoperable and optimized to work seamlessly together from day one.

Digi XBee for Wi-SUN Modules

Form factor flexibility and edge intelligence

- Built on Silicon Labs EFR32FG2x SoCs highest level of Secure Vault™
- Full Function Node (FFN) and Leaf Node (LFN) modules to provide cost and performance optimized options
    - Support for FSK data rates from 30 up to 500 Kbps (LFN/FFN) and OFDM data rates from 12 Kbps up to 2.4 Mbps (FFN)
    - Leaf Node supports battery-powered applications with up to 10-15 years of battery life*
    - Leaf Node with Bluetooth LE for optional provisioning and sensor connectivity capabilities**
    - Up to 16 dBm transmit power for FFN nodes, up to 20 dBm transmit power for Leaf nodes***
- On-module edge intelligence and local control with custom MicroPython applications
- Local interface support for GPIO, I2C, SPI, and UART
- Pre-injected certificates for simplified PKI deployment and management3 using Wi-SUN Alliance® approved Root CA
- Industrial operating temperature range of -40 °C to 85 °C
- Simplified global deployment with regulatory approvals for US, Canada, Europe, India, and Japan
- Wi-SUN CERTIFIED™ for proven FAN 1.1 standard compatibility with the broader Wi-SUN ecosystem

*Depending on use cases and duty cycle requirements.
**Coming soon
***PRO version with up to 30 dBm (1W) planned. Contact us for additional information.

Digi XBee Hive Wi-SUN Border Router
## Scalable edge connectivity with container support

- Compact and cost-effective Digi XBee for Wi-SUN Border Router with network scalability of up to 300 connected Wi-SUN nodes
- Scalable performance, and integrated connectivity options
    - Dual Cortex-A7 @ 650 MHz and Cortex-M4 @ 209 MHz
    - Integrated Wi-SUN and 10/100 Mbit Ethernet connectivity
    - LTE Cat 1, dual-band Wi-Fi 5 with Bluetooth 5.2 options
    - Software-selectable RS-232/RS-485 interfaces
    - USB 2.0 and microSD storage extension
- Extended operating temperature range of -40 °C up to 60 °C depending on variant
- Edge compute capabilities with Linux container and Python 3 support for local compute, data aggregation, protocol translation, and seamless cloud integration
- Built on Digi Accelerated Linux with Digi TrustFence® security and Silicon Labs' PSA Level 3-certified Secure Vault High™ providing hardware-anchored protection against cyber security attacks
- IPv6/v4 address translation for seamless integration into existing IT infrastructures
- Full Wi-SUN network management and border router remote monitoring capabilities through Digi Remote Manager
- Optional global Digi cellular data plans with seamless management available
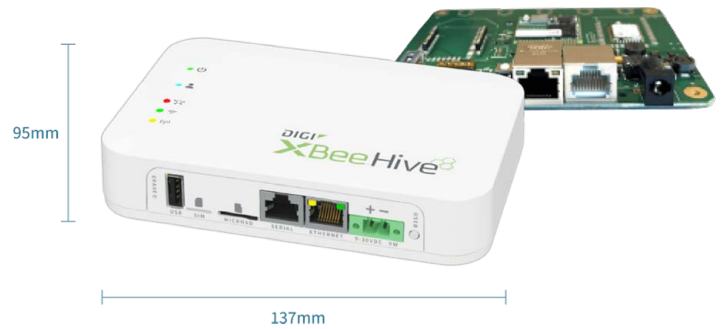
Digi XBee Studio and Digi Remote Manager for Wi-SUN
On-site and remote Wi-SUN network management

- Manage the configuration, performance, and operation of your Wi-SUN network and nodes, including digital certificate (PKI) lifecycle and provisioning*
- Use our proven cloud-based Digi Remote Manager as well as XBee Studio and local Digi XBee tools for deployment, monitoring, and provisioning
- Automate firmware/software over-the-air updates (OTA) to enhance functionality, stay in compliance, and scale deployment
- Receive real-time alerts and detailed reports on network health and device conditions
- Integrate device data through open APIs for deeper insights and control with your third-party applications
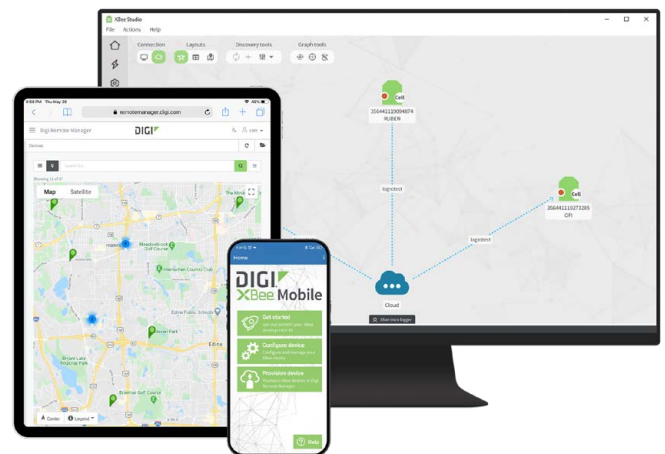
*Future release.

For more information, visit:

www.digi.com

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