



Digi XBee Hive Gateway

Versatile, programmable IoT gateway with Digi XBee RF modules, Digi XBee cellular and Digi ConnectCore for all of your wireless connectivity needs

The versatile **Digi XBee Hive Gateway** functions as both a gateway and a router, giving customers a lower-cost, faster-to-market alternative to chip-down DIY designs for networking operations.

As part of the complete Digi wireless ecosystem designed around the principles of Build, Deploy, Manage — the gateway combines **Digi ConnectCore**, **Digi XBee cellular** and **Digi XBee RF** modules, plus optional Wi-Fi and Bluetooth Low Energy for cloud applications. This solution provides the easiest path to complete connectivity and seamless interoperability across the **Digi XBee ecosystem** of hardware, software, services and award-winning tools.

The Digi XBee Hive Gateway is an excellent choice for oil and gas, water/wastewater, solar, agriculture and other industrial applications — providing a unified platform that reduces costs and accelerates time to market.

The Digi XBee Hive Gateway includes a simple, open source Python development environment that enables custom applications to perform edge computing locally while ensuring optimal, resilient connectivity between your XBee network and cloud-based applications. **Digi Containers** also enable powerful, flexible and resource-efficient applications and open-source development.

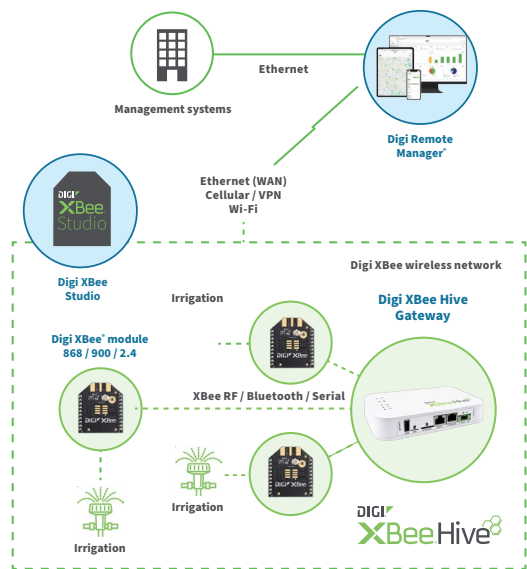
Gain critical insights into deployed devices and manage your network with SOC 2® Type 2 compliant **Digi Remote Manager** (DRM) — the command center for your deployment. Digi RM simplifies setup, mass configuration and maintenance with visibility into network health for dozens or thousands of devices, plus secure terminal access for out-of-band management.

Together, these capabilities make the Digi XBee Hive Gateway a trusted path from prototype to secure, scalable IoT development, deployment, connectivity and complete lifecycle management.

Key features, benefits and applications

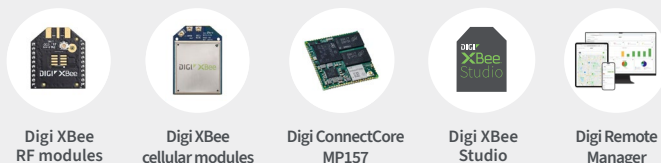
- Digi XBee (2.4 GHz, Zigbee, DigiMesh, 802.15.4, 900 and 868 MHz and additional frequency support), Bluetooth® 5.2 and RS-232/485 for connection to local devices
- Open source Python environment and **Digi Containers** for custom application development
- LTE Cat 1 cellular and 10/100 Ethernet WAN connectivity
- SOC 2 Type 2 compliant **Digi Remote Manager** platform for easy setup, mass configuration, out-of-band and remote management
- Full-featured industrial cellular routing platform
- Redundant connectivity options including cellular and **Digi SureLink**
- Built-in **Digi TrustFence** for device security, identity and privacy
- **Digi XBee Tools** to simplify tasks and get to market faster

Application example



Need custom design and engineering support?
[Contact Digi Wireless Design Services.](#)

Related Digi devices and software



DIGI XBEE HIVE GATEWAY

Management and Security

Build. Deploy. Manage.

Digi Remote Manager (DRM)

Digi Remote Manager is a proven technology platform that brings networks to the next level, empowering networks — and the people who manage them — to work smarter.

DRM transforms a multitude of dispersed IoT devices into a dynamic, intelligent network. It's easy to deploy, monitor and diagnose thousands of mission-critical devices from a single point of command on a desktop, tablet or phone. All the while, software-defined security diligently safeguards your entire Digi ecosystem.

[Learn more at digi.com/digi-remote-manager.](https://digi.com/digi-remote-manager)

Digi RM infrastructure and security

- Hosted in a commercial-grade cloud server environment that meets SOC 1°, SOC 2°, SOC 2° Type 2 and SOC 3° standards
- Superior availability, operating at 99.9% or greater uptime
- Open APIs are available to support application development
- Comprehensive security controls to protect your data
- Member of the Center for Internet Security® (CIS)
- Enables compliance with security frameworks like ISO27002, HIPAA, NIST and more
- Earned Skyhigh's CloudTrust™ Program highest rating of Enterprise-Ready

Digi Accelerated Linux (DAL OS)

DAL OS is Digi's standard operating system integrated across an entire range of connected devices. Developed for speed and simplicity, DAL OS enables advanced capabilities that support today's demanding applications. [Learn more at digi.com/DAL.](https://digi.com/DAL)

Digi TrustFence

The Digi TrustFence device security framework simplifies the process of securing multiple connected devices.



Designed for mission-critical applications, **Digi TrustFence** enables users to easily integrate device security, device identity, and data privacy capabilities into product design. Together with SOC 2 Type 2 compliant Digi Remote Manager, Digi TrustFence delivers unified, auditable security and compliance from device to cloud.

[Learn more at digi.com/trustfence.](https://digi.com/trustfence)



Data plans, DRM and DAL OS capabilities

- **Data plans:** simple, cost-effective global cellular connectivity
- **DAL OS with SOC 2 Type 2-compliant Digi Remote Manager:** remote console access, configuration templates, HTTP proxy, device event logs, configurable maintenance window
- **Digi MCP Server:** make your Digi infrastructure AI-ready — instantly and securely, without added integration complexity
- **Serial:** Modbus, serial-over-TCP/UDP
- **Customization:** Python 3, Python pip, PyCharm integration, shell scripting, containers, MQTT client
- **Troubleshooting:** iPerf, Ookla Speedtest®, Find Me device discovery
- **GNSS:** NMEA/TAIP location forwarding to servers, geo-fencing
- Activate, monitor and diagnose your mission-critical devices through a single portal
- Schedule key operations — including firmware updates and file management — on a device or group of devices, keeping network functionality up-to-date and maintaining compliance standards
- Manage edge devices out-of-band via console terminal access
- Monitor equipment health and connectivity across deployments
- Create detailed reports and real-time alerts for specified conditions
- Integrate device data through open APIs to gain deeper insights and control with third-party applications
- Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss

Built-in Security. Delivered.

- **Secure boot:** Programs and code running on the device are validated to be from an approved source or manufacturer
- **Protected hardware ports:** Internal and external I/O ports are hardened and access-controlled to prevent unwanted intrusion
- **Authentication:** Data authentication and device identity management options, with updated user and password settings
- **Secure connections:** Latest encryption protocols for data in motion and over-the-air (OTA) transmissions to ensure integrity
- **Ongoing monitoring and support:** Ongoing threat measurement and monitoring services, with external security audits

DIGI XBEE HIVE GATEWAY

Tools and Configuration

Build. Deploy. Manage.

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

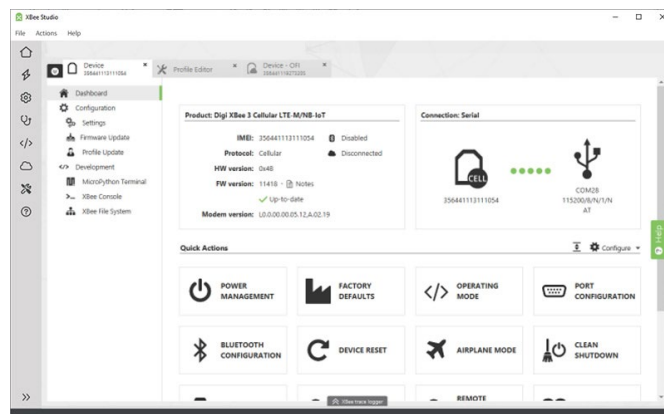
Our decades of embedded experience and millions of deployed devices tell our story; Digi is a trusted solutions provider dedicated to simplifying the way OEMs design, build, deploy and maintain secure connected products.

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 HIVE GATEWAY

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.

Build. Deploy. Manage.



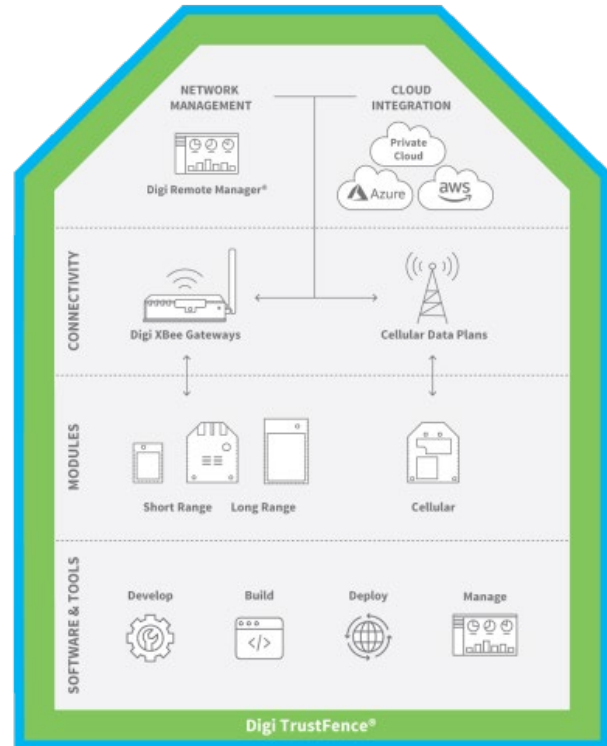
The **Digi XBee Ecosystem** is fully supported with the award-winning **Digi XBee Tools** suite. Designed to support the full product lifecycle, from prototyping and development to deployment and ongoing monitoring, Digi XBee Tools includes code libraries, testing and prototyping tools, product development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



DEFINITION



DEVELOPMENT



CERTIFICATION



MANUFACTURING

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 HIVE GATEWAY

Specifications



Manage and configure Digi XBee Hive Gateway with Digi XBee Studio

Specifications	Digi XBee Hive Gateway
HARDWARE	
DIGI XBEE MODULE	2.4 GHz: Digi XBee 3 Zigbee 3.0 MMT (XB3-24Z8UM) 900 MHz: Digi XBee XR 900 MMT (XB-9XR-DMUM-001) 920 MHz: Digi XBee XR 920 Japan MMT (XB-9XR-DMUM-051) 868 MHz: Digi XBee XR 868 MMT (XB-8XR-DMUM-101)
DIGI CONNECTCORE MP157	STMicroelectronics STM32MP157C, Arm® dual Cortex®-A7 at 650 MHz, Cortex®-M4 at 209 MHz with FPU/MPU, 3D GPU, secure boot, crypto engine, 512 MB SLC NAND flash and 512 GB DDR3L, STMicroelectronics Power Management IC — STPMIC1
ZIGBEE STACK	Zigbee PRO
ZIGBEE TRANSMIT POWER	PRO: 63 mW (18 dBm)
ZIGBEE RECEIVER SENSITIVITY	-102 dBm
BLUETOOTH VERSION	Supports Bluetooth Low Energy 5.2 and capable of interoperating with Bluetooth Low Energy 5.2 devices that support 1M PHY. Hardware is software upgradeable to 5.2 (not yet enabled except payload extensions).
XBEE CONNECTOR	(1) 50 ohm RP-SMA (center pin: male)
MEMORY	512 MB RAM, 512 MB flash; (1) microSD card slot
USB	(1) USB type 2.0
SOFTWARE AND MANAGEMENT	
PYTHON	Python 3
REMOTE MANAGEMENT	Digi Remote Manager ; SNMP v2/v3 (user installed/managed)
LOCAL MANAGEMENT	WebUI (HTTP/HTTPS); CLI (Telnet, SSH)
MANAGEMENT / TROUBLESHOOTING TOOLS	FTP client, SCP; protocol analyzer with PCAP for Wireshark; event logging with syslog and SMTP client; NTP/SNTP; Nagios, Intelliflow, iPerf, Dynamic DNS, ping, traceroute
ETHERNET	
PORTS	(1) RJ-45; 10/100 Mbps (auto-sensing)
SERIAL	
PORTS	(1) RJ-50 10 pin (10P10C); RS-232/485; software-selectable - RS-232 DTE (RXD, TXD, RTS, CTS, DTR, CDC, DSR, RI) - RS-485 (TX/RX+;RX/TX-); half-duplex
WI-FI / BLUETOOTH LOW ENERGY	
TECHNOLOGY	Wi-Fi 5 dual-band 802.11a/b/g/n/ac 1x1 radio (up to 433.3 Mbps) with strong SPA3-Enterprise authentication/encryption, Bluetooth 5.2 (Basic Rate, Enhanced Data Rate and Bluetooth Low Energy)
SECURITY	WPA and WPA2 Personal and Enterprise, Open and Open Enhanced security standards
HOTSPOT	Captive portal with customizable splash page, terms and conditions, shared password, user-specific password, RADIUS authentication
THIRD-PARTY SERVICES	Content filtering, embedded advertising
USER MANAGEMENT	Per-client usage limit and reporting
MODES	Simultaneous client and access point support
CONNECTORS	(1) 50 Ω RP-SMA (center pin: male)
CELLULAR	
4G LTE CAT 1	Digi XBee 3 Global LTE Cat 1 (Thales PLS63-W)
ANTENNAS	(2) 50 Ω RP-SMA (center pin: female)
SIM	(1) External (4FF SIM)

DIGI XBEE HIVE GATEWAY

Specifications



Manage and configure Digi XBee Hive Gateway with Digi XBee Studio

Specifications	Digi XBee Hive Gateway
PHYSICAL	
DIMENSIONS (L X W X H)	148 mm x 99 mm x 33 mm (5.83 in x 3.9 in x 1.3 in)
WEIGHT	0.24 kg (0.53 lb)
STATUS LEDS	Power, XBee, Cellular (where applicable), Wi-Fi (where applicable), User
BUTTONS	Erase, User
ENCLOSURE	ABS, flame rating: UL94-HB
POWER REQUIREMENTS	
POWER INPUT	9 - 30 VDC, 1.0 A Maximum
POWER CONSUMPTION	1.75 W typical (idle); 9 W typical (peak Tx/Rx)
ENVIRONMENT	
OPERATING TEMPERATURE	PCB: -40 °C to 70 °C (-40 °F to 158 °F) With enclosure: -30 °C to 60 °C (-22 °F to 140 °F)
RELATIVE HUMIDITY	95% ROHS
REGULATORY APPROVALS*	
SAFETY	IEC62368-1
EMISSIONS	CE; RED; FCC Part 15, Subpart B*; ICES-003; AU/NZS CISPR32
CELLULAR AND REGULATORY	Visit digi.com/resources/certifications for latest certifications and approvals.
WARRANTY	
PRODUCT WARRANTY	3-year

*Visit digi.com/resources/certifications for latest certifications and approvals.

Enterprise Software	Description
NETWORK PROTOCOL SUPPORT	HTTPS, FTP client, TLS v1.2, SCP (client and server), SFTP, SMTP client for use by scripts and the command line, SNMP (v2/v3), SSH; remote management via Digi Remote Manager ; protocol analyzer, ability to capture PCAP for use with Wireshark; DynDNS; dynamic DNS client compatible with BIND9/No-IP/DynDNS; captive portal, Intelliflow; Nagios, DNS server, NTP server, multicast, mDNS, IPerf
SECURITY	IP filtering, stateful firewall, custom firewall rules (iptables), address and port translation, TLS 1.2 and above, OpenVPN client and server, VPN tunnels; Authentication: RADIUS, TACACS+; certificates; MAC address filtering; VLAN support
VPN	IPSec with IKEv1, IKEv2, NAT Traversal; OpenVPN client and server; GRE VPN tunnels; Cryptology: SHA-1/256/384/512, MD5, RSA; Encryption: 3DES and AES up to 256-bit (CBC mode for IPsec); Diffie Hellman: DH groups 1-32 (CURVE448)
ROUTING/FAILOVER	IP pass-through; NAT, NAPT with IP port forwarding; GRE; multicast routing; routing protocols: RIP (v1, v2) OSPF, BGP; IP failover: VRRP; automatic failover, Digi SureLink
OTHER PROTOCOLS	DHCP; dynamic DNS client compatible with No-IP/DynDNS

*For a comprehensive list of operating system features, please visit digi.com/solutions/by-technology/dal-operating-system/features.

DIGI XBEE HIVE GATEWAY

Product Photos

Digi XBee Hive Gateway



Digi XBee Hive Gateway with accessories — front

Digi XBee Hive Gateway with accessories — back



Digi XBee Gateway Router — front

Digi XBee Gateway Router — back



DIGI XBEE HIVE GATEWAY

Part Numbers

Part Numbers	Digi XBee Hive Gateway
DIGI XBEE HIVE GATEWAY MODELS — 2.4 GHZ	
XH-24P-CE0-001	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, Digi XBee 3 Zigbee 3
XH-24P-CW0-001	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, dual-band Wi-Fi, Digi XBee 3 Zigbee 3
XH-24P-CE1-101	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, LTE Cat 1, Digi XBee 3 Zigbee 3
XH-24P-CW1-101	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, dual-band Wi-Fi, LTE Cat 1, Digi XBee 3 Zigbee 3
XH-024-CE0-001	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, Digi XBee 3 2.4 GHz non-PRO
XH-024-CW0-001	Digi XBee Hive Gateway — 2.4 GHz, Ethernet, dual-band Wi-Fi, Digi XBee 3 2.4 GHz non-PRO
DIGI XBEE HIVE GATEWAY MODELS — 900 MHZ	
XH-900-CE0-001	Digi XBee Hive Gateway — 900 MHz, Ethernet, North America
XH-900-CW1-101	Digi XBee Hive Gateway — 900 MHz, Ethernet, dual-band Wi-Fi, LTE Cat 1, North America
DIGI XBEE HIVE GATEWAY MODELS — 868 MHZ	
XH-868-CE0-001	Digi XBee Hive Gateway — 868 MHz, Ethernet, EU
XH-868-CW0-001	Digi XBee Hive Gateway — 868 MHz, Ethernet, dual-band Wi-Fi, EU
XH-868-CE1-101	Digi XBee Hive Gateway — 868 MHz, Ethernet, LTE Cat 1, EU
XH-868-CW1-101	Digi XBee Hive Gateway — 868 MHz, Ethernet, dual-band Wi-Fi, LTE Cat 1, EU

Part Numbers	Digi XBee Hive Development Kit*
DIGI XBEE HIVE DEVELOPMENT KIT	
XH-24P-TW1-101	Digi XBee Hive Development Kit — Digi XBee Hive Gateway with Digi XBee 3 Zigbee 3, Ethernet, dual-band Wi-Fi, cellular and accessories
XH-024-TW1-101	Digi XBee Hive Development Kit — Digi XBee Hive Gateway with Digi XBee 3 DigiMesh, Ethernet, dual-band Wi-Fi, cellular and accessories
XH-900-TW1-101	Digi XBee Hive Development Kit — Digi XBee Hive Gateway with Digi XBee XR 900, Ethernet, dual-band Wi-Fi, cellular and accessories
XH-868-TW1-101	Digi XBee Hive Development Kit — Digi XBee Hive Gateway with Digi XBee XR 868, Ethernet, dual-band Wi-Fi, cellular and accessories

*Includes power supply, antennas, cables, global SIM with data plan and [Digi Remote Manager](#) (1-year subscription).

Part Numbers	Digi XBee Hive Accessory Kit
DIGI XBEE HIVE GATEWAY ACCESSORIES	
76002163	Digi XBee Hive Accessory Kit — 2.4 GHz
76002164	Digi XBee Hive Accessory Kit — 900 MHz
76002165	Digi XBee Hive Accessory Kit — 865/868 MHz

For more information, visit digi.com.



For more information about Digi XBee Hive Gateway, visit digi.com/xbee-hive-gateway.

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