Digi HX15 Gateway for LoRaWAN®

Flexible, modular gateway for indoor LoRaWAN IoT networks and applications

The **Digi HX15 Gateway for LoRaWAN®** is optimized for indoor IoT coverage applications with support for different LoRaWAN channel plans. With eight receive channels for coverage and capacity for up to 1.5 million messages per day, and options for easy wall and table mounting, the HX15 gateway makes an ideal solution for smaller campus or building deployments.

Designed to simplify deployment, the Digi HX15 gateway can be installed quickly and easily with auto-connect and auto-configure features through the **Digi X-ON™** IoT platform.

The gateway is deployed using independent Ethernet and power. Optional LTE cellular connectivity expands functionality and integration with enterprise cloud services and support. Digi X-ON scan-and-go mobile provisioning streamlines the installation and configuration process.

Digi HX15 is FCC and IC certified with 10/100/1000 M Ethernet and LTE Cat 1 cellular backhaul options. Expand and future-proof indoor LoRaWAN IoT networks and applications with Digi HX15 gateway and Digi X-ON cloud management solutions.

LoRa (Long Range) Wide Area Network (WAN) solutions from Digi deliver the flexible, affordable capabilities of LoRaWAN networking, with a complete end-to-end solution that you can deploy today. LoRaWAN provides options for IoT use cases needing more coverage and extremely low power. It is ideally suited for devices that require ultra-low system cost and low message rates, and offers additional options to complement Digi's long- and short-range selection of wireless solutions.

Related Digi industrial IoT software and solutions

Digi HX20 Gateway

Digi XBee LR RF for LoRaWAN

Digi Intelligent Edge Controller

Digi X-ON

Key features, benefits and applications

- Simple gateway deployment for LoRaWAN and IoT applications
- Capacity for up to 1.5 million messages per day
- Modular design to support multiple frequency bands
- **Digi X-ON** IoT configuration and management
- Indoor enclosure for wall and table mounting
- USB-C power supply
- Scan-and-go provisioning with web-based mobile scanning app
- Status LEDs for LoRa TX and RX, cellular signal strength, power
- Optional LTE cellular connectivity (region-specific)
- Micro (3FF) SIM included on LTE gateways

Application Example

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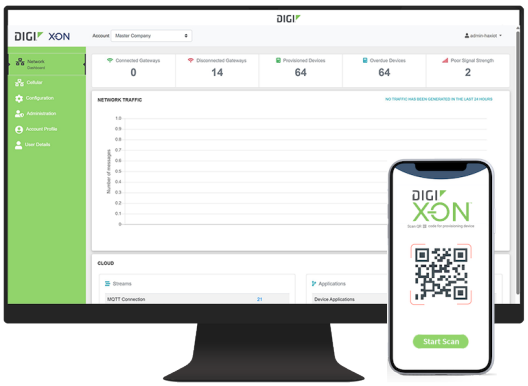
DIGI HX15 GATEWAY FOR LORAWAN

Digi X-ON



Digi X-ON is a complete device-to-cloud platform for connected IoT devices. The platform provides a data-ready device solution from development to operation. Digi X-ON contains an integrated network server and JOIN server to support devices and gateways that use the LoRaWAN wireless connectivity standard. Digi X-ON also contains a web server for hosting web applications and platform management services. Digi X-ON with LoRaWAN provides cloud-enabled secure, long-range and low-power wireless connectivity for self-built or commercial off-the-shelf devices supporting the LoRaWAN standard.

The Digi X-ON platform is designed to collect and analyze data directly from devices and manage the wireless network base stations that provide campus, city or nationwide coverage. Digi X-ON and LoRaWAN support many different applications and use cases such as connected cities, smart utility, industrial IoT and smart agriculture.

Learn more at **digi.com/x-on**.

Capabilities

- Enables you to configure, monitor and diagnose your mission-critical devices or gateways from the Digi X-ON web and mobile interface
- Automates deployment of devices and gateways with the provisioning app
- The Stream feature provides inter-cloud API support for real-time two-way device data between multiple cloud platforms
- Data templates include Transform functions for simplified integration of device data to multiple cloud platforms, including support for MQTT, WebSocket and cloud service providers including Microsoft Azure® and Amazon Web Services (AWS)
- Provides a multi-tenant hierarchy of accounts for OEMs, resellers and end users for managing complex business structures with role-based access controls
- Users can create comprehensive IoT applications by utilizing the X-ON platform AppEngine
- Provides advanced scheduling for events or timers for proactive maintenance, automated business operations and process control
- Enables real-time alerts and notifications with email, SMS or API
- Provides on-demand or scheduled reporting with business insights, network health or custom reports
- Enables logging and tracing of real-time data messages for interactive operations and troubleshooting with devices and gateways
- Lets you integrate data through open APIs to develop more complex applications with third-party utilities
- Ability to configure custom triggers using the intuitive IEC Configuration Tool

Infrastructure

- Hosted in a commercial-grade cloud server environment that meets SOC 1®, SOC 2® and SOC 3® standards
- Superior availability, operating to 99.9% or greater with N+1 high-availability microservices
- Open APIs available to support application development
- Auto-scale elastic capacity 2M devices/min, 20k gateways/min, 6k users/min

Security

- TLS PKI security across all applications
- Member of the Center for Internet Security® (CIS®)
- AES encryption for LoRaWAN

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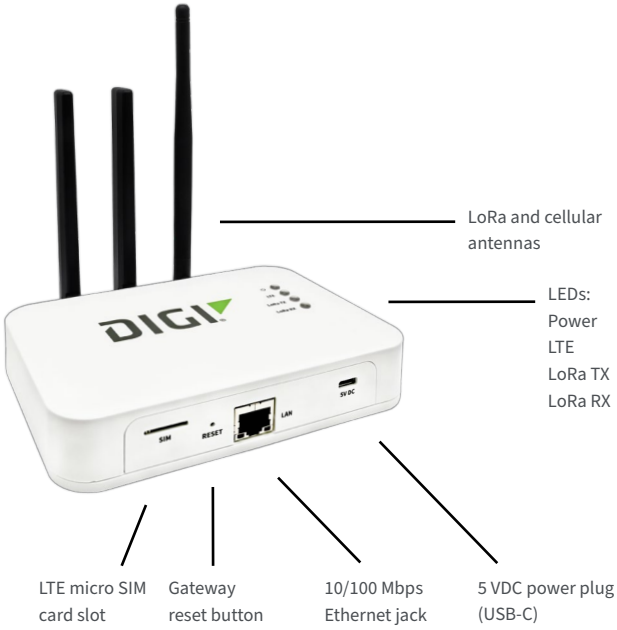
Product Photos

Digi HX15 Gateway for LoRaWAN



Digi HX15 Gateway for LoRaWAN — top

Digi HX15 Gateway for LoRaWAN — back

Digi HX15 Gateway for LoRaWAN — front

Digi HX15 Gateway for LoRaWAN — right

Digi HX15 Gateway for LoRaWAN — left

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DIGI HX15 GATEWAY FOR LORAWAN

Specifications

Manage this device with Digi X-ON IoT platform

Specifications	Digi HX15 Gateway (US915)	Digi HX15 Gateway (EU868)
X-ON OPTIMIZED DEPLOYMENT		
REMOTE MANAGEMENT	Digi X-ON IoT platform (30-day trial subscription included with Digi HX15 Gateway)	
SCAN-AND-GO MOBILE PROVISIONING	Streamlines gateway deployment by automating provisioning, minimizing manual configuration time and errors	
AUTO-CONNECT AND CONFIGURATION	Enables dynamic connection to LoRaWAN network services with auto-configuration for immediate operation out of the box	
CONTINUOUS MONITORING INTERFACE	Provides real-time device diagnostics and network health metrics accessible via web and mobile dashboards	
SYSTEM	API management; auto-discovery over IP	
TOOLS	System monitor, logging, radio configuration, remote software upgrade	
NETWORKING	IPv4, IPv6, AES 256-bit, DHCP	
SYSTEM		
APPLICATION PROCESSOR	Digi ConnectCore® MP157 dual 650 MHz	
OPERATING SYSTEM	Digi Embedded Yocto Linux®	
MEMORY	512 MB RAM and 8 GB eMMC Flash	
INTERFACES		
ETHERNET BACKHAUL	RJ-45, 10/100/1000 M	RJ-45, 10/100/1000 M
CELLULAR BACKHAUL	LTE Cat 1 or Cat M1/NB-IoT multi-region, up to 10 Mbps, with 2G fallback for EU	
SUPPORTED BANDS	LTE: B2, B4, B12; 3G: B2, B4, B5	LTE: B1, B3, B7, B8, B20, B28A; 3G: B1, B8; 2G: B3, B8
LTE SIM	Micro SIM (3FF), pre-activated SIM card included on LTE gateways	Micro SIM (3FF), pre-activated SIM card included on LTE gateways
CELLULAR ANTENNAS	LTE, 3G, 2G,3G (SMA type), omni-directional, 50 Ω, max. input 25 W	LTE, 3G, 2G,3G (SMA type), omni-directional, 50 Ω, max. input 25 W
LORA SPECIFICATIONS		
REGIONAL BANDS	US915	EU868
MAX TX POWER	+27 dBm	+27 dBm
RX SENSITIVITY	−138 dBm	−138 dBm
CHANNELS	8 Rx / 1 Tx	8 Rx / 1 Tx
LORA ANTENNA	−1.7 dBm (SMA type), omni-directional, 50 Ω, max. input 25 W	−1.6 dBm (SMA type), 50 Ω, omni-directional, max. input 25 W
POWER		
POWER INPUT	USB-C, 5 VDC	
ENVIRONMENTAL		
OPERATING TEMPERATURE	−25 °C to 55 °C (−13 °F to 131 °F), non-condensing	
MECHANICAL		
DIMENSIONS (L X W X H)	14.61 x 14.61 x 3.17 or 12.06 cm with antenna (5.75 x 5.75 x 1.25 or 4.75 in with antenna)	
WEIGHT	216 g (7.62 oz)	
ACCESSORIES		
INCLUDED ACCESSORIES	Power supply kit, USB cable, pre-activated SIM card, (2) cellular antennas, LoRa antenna	
APPROVALS		
EMISSIONS / IMMUNITY	CE; RED; FCC Part 15 Subpart B; CAN ICES-003	
SAFETY	IEC 62368-1, CB, EN 62311	
WARRANTY		
PRODUCT WARRANTY	3-year	

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DIGI HX15 GATEWAY FOR LORAWAN

Part Numbers

Manage this device with Digi X-ON IoT platform

Part Numbers	Digi HX15 Gateway for LoRaWAN
DIGI HX15 GATEWAY MODELS	
HX15-8-LR-GIE-002	Digi HX15 Gateway for LoRaWAN — indoor, Ethernet, LoRaWAN, 868 MHz (EU) with 5 V at 2 A USB-C power supply, LoRaWAN antenna
HX15-8-LR-GIL-102	Digi HX15 Gateway for LoRaWAN — indoor, Ethernet, LTE, LoRaWAN, 868 MHz (EU) with 5 V at 2 A USB-C power supply, LoRaWAN and cellular antennas, and pre-activated SIM card
HX15-9-LR-GIE-002	Digi HX15 Gateway for LoRaWAN — indoor, Ethernet, LoRaWAN, 900 MHz (US) with 5 V at 2 A USB-C power supply, LoRaWAN antenna
HX15-9-LR-GIL-102	Digi HX15 Gateway for LoRaWAN — indoor, Ethernet, LTE, LoRaWAN, 900 MHz (US) with 5 V at 2 A USB-C power supply, LoRaWAN and cellular antennas, and pre-activated SIM card

Part Numbers	Available Subscriptions and Accessories*
XON-PLT-1MTH	Digi X-ON IoT Platform Platinum Edition Subscription
XON-PRE-1MTH	Digi X-ON IoT Platform Premium Edition Subscription
XON-STD-1MTH	Digi X-ON IoT Platform Standard Edition Subscription
XON-SUP-MTH	Digi X-ON IoT Platform Advanced Technical Support
XON-CELL-2GB	Digi X-ON Cellular Connectivity 2 GB AT&T SIM card (North America)
XON-CELL-EU-2GB	Digi X-ON Cellular Connectivity 2 GB AT&T SIM card (Europe)
XON-CLOUD-TEST-1MTH	Digi X-ON IoT Platform Dedicated Development Server Subscription
XON-DEV-1MTH	Digi X-ON IoT Platform Developer Edition Subscription

*Digi X-ON 30-day trial subscription included with Digi HX15 Gateway. Additional subscriptions and accessories not included with Digi XBee HX15 Gateway unless otherwise noted.

For more information, please visit **digi.com**.

For more information about Digi HX15 Gateway for LoRaWAN, visit **digi.com/hx15**.

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