



PRELIMINARY DATASHEET

Digi HX15 Gateway

Flexible, modular gateway for indoor LoRaWAN IoT networks and applications

The **Digi HX15** gateway 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™** cloud 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.

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. Need design support? **Digi Wireless Design Services (WDS)** is an engineering team that provides additional cellular integration support, certification assistance, and custom design and build services to get your products to market smarter and faster.

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** cloud 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 gateway
- Turnkey development services available from **Digi WDS**

Related Digi industrial IoT software and solutions



Digi HX20 Gateway



Digi XBee LR RF for LoRaWAN

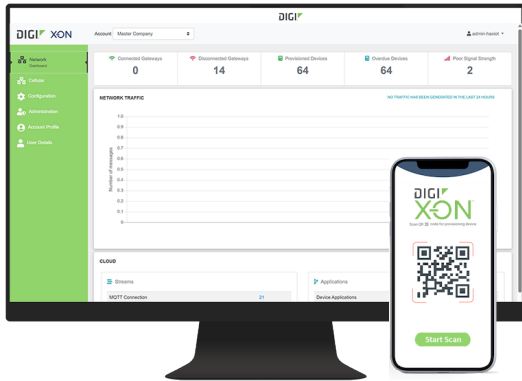


Digi Intelligent Edge Controller



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 LoRaWAN 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 LoRaWAN devices.

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/lorawan.

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 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^o, SOC 2^o and SOC 3^o 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

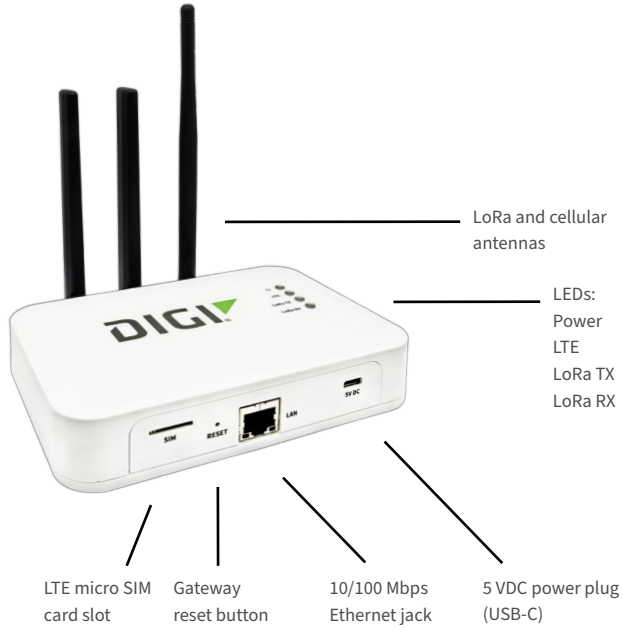
Security

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

DIGI HX15 GATEWAY

Product Photos

Digi HX15 Gateway



Digi HX15 Gateway – top



Digi HX15 Gateway – back



Digi HX15 Gateway – front



Digi HX15 Gateway – left



Digi HX15 Gateway – right



DIGI HX15 GATEWAY

Specifications



Manage this device with
Digi X-ON cloud IoT platform

SPECIFICATIONS	DIGI HX15 GATEWAY (US915) DIGI HX15 GATEWAY (EU868)	
SOFTWARE AND MANAGEMENT		
REMOTE MANAGEMENT	Digi X-ON cloud IoT platform	
SYSTEM	API management; auto-discovery over IP	
TOOLS	Access control lists, system monitor, logging, radio configuration, remote software upgrade	
NETWORKING	IPv4, SSH, AES 256-bit, DHCP, TFTP	
SYSTEM		
APPLICATION PROCESSOR	Digi ConnectCore MP157 dual 650 MHz	
OPERATING SYSTEM	Digi Embedded Yocto Linux	
MEMORY	512 MB RAM and 8 GB eMMC	
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	
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	

DIGI HX15 GATEWAY

Part Numbers

PART NUMBERS	DIGI HX15 GATEWAY
DIGI HX15 GATEWAY MODELS	
HX15-8-LR-GIE-002	Digi HX15 Gateway, 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, indoor, 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, 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, indoor, 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 Cloud IoT Platform Platinum Edition Subscription
XON-PRE-1MTH	Digi X-ON Cloud IoT Platform Premium Edition Subscription
XON-STD-1MTH	Digi X-ON Cloud IoT Platform Standard Edition Subscription
XON-SUP-MTH	Digi X-ON Cloud 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 Cloud IoT Platform Dedicated Development Server Subscription
XON-DEV-1MTH	Digi X-ON Cloud IoT Platform Developer Edition Subscription

*Subscriptions and accessories not included with Digi XBee HX15 models unless otherwise noted.



The information provided in this document is preliminary and may be subject to change without notice.

For more information, please visit digi.com.



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

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