DIGI Ventus
Managed Connectivity Solutions



Digi EX61 5G

Secure indoor/outdoor 5G connectivity with simplified deployment and centralized management for distributed enterprise environments

Designed for distributed enterprise and outdoor deployments, Digi EX61 is a compact indoor/outdoor 5G cellular extender that delivers secure, always-on connectivity for retail branches, kiosks, digital signage, smart city infrastructure and other fixed-location applications.

Built on the Qualcomm SDX72 platform and compliant with 3GPP Release 17, Digi EX61 combines 5G eMBB with LTE fallback and dual 2.5 GbE ports for high-capacity connectivity. Internal omnidirectional cellular and passive GNSS antennas eliminate external RF connectors, simplifying installation while improving long-term reliability across indoor and outdoor deployments.

An RJ-45 serial port provides direct out-of-band management access to connected enterprise infrastructure, while a physical 4FF Nano SIM and embedded Digi eSIM with software-selectable carrier switching enable zero-touch device setup, carrier flexibility and seamless failover. Digi EX61 supports simplified single-cable deployment using 802.3af PoE or USB-C power. The IP66-rated enclosure and -40 °C to 70 °C (-40 °F to 158 °F) operating range support reliable operation across demanding outdoor and industrial environments.

With Digi Ventus, organizations get continuous monitoring of distributed devices through Digi Ventus Genesis, which delivers real-time health and performance visibility, proactive alerts, and detailed reporting. Digi Ventus keeps devices configured, patched and secure, helping you reduce downtime, simplify operations and avoid costly onsite service calls.

Digi EX61 delivers secure 5G connectivity with simplified deployment and centralized management for distributed enterprise environments.

Related Digi IoT software and solutions


Digi EX60 5G

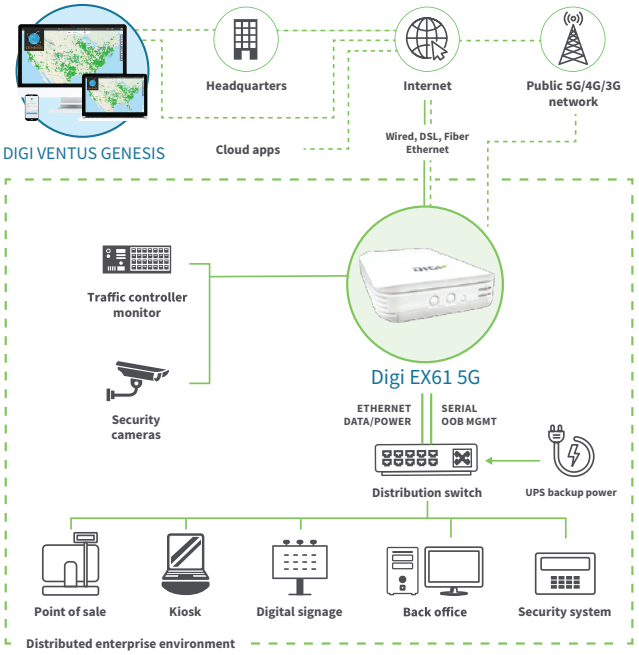

Digi EX50 5G


Digi EX15


Digi Ventus Genesis

Key features, benefits and applications

- Indoor/outdoor 5G cellular extender (Qualcomm SDX72 platform)
- Built on a 3GPP Release 17 5G platform enabling higher uplink performance, improved spectral efficiency and enhanced enterprise feature support
- Physical 4FF Nano SIM slot plus embedded Digi eSIM for carrier flexibility, wireless failover and zero-touch device setup
- Internal omnidirectional cellular and passive GNSS antennas eliminate external RF connectors and antenna maintenance
- Dual 2.5 GbE ports for high-performance WAN and LAN connectivity
- 802.3af PoE or USB-C power for simplified single-cable deployment
- RJ-45 serial port provides direct out-of-band management access to connected enterprise infrastructure
- IP66-rated enclosure for indoor, outdoor and wayside deployments
- Mounting hardware included for wall, pole and ceiling placement



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DIGI EX61 5G WITH DIGI VENTUS

Digi Ventus Genesis

The Genesis platform from Digi Ventus visualizes your network and provides immediate command and control of connected hardware on any mobile or desktop screen. More than just a standalone application, Genesis provides an industry leading turnkey toolbox to observe, configure and report on network operations in real time. Optional white labeling helps make Genesis a key value-add for new revenue generation.



- Genesis focuses on making complex management routines simple by automating common low-level steps to make device management easy.
- Genesis provides device portfolio information and functionality for multiple audiences. It can be used by technical and non-technical audiences alike.
- Genesis provides a customer facing REST API. If a customer already has an application and simply wants to leverage the information within Genesis, the REST API will do it simply and securely.
- Genesis supports NOCs and technical support centers alike. The map view is a popular feature that allows NOCs to view their portfolios geographically and get context information about the health of their connections, weather impact and other data points required for the specific application.

Core Features

Genesis offers four key capabilites: monitoring, diagnostics, reporting and over-the-air updates (OTAs).

Monitoring

The system tracks remote devices through:

- Interactive maps
- Network availability status
- Device metadata, including IP addresses and network configuration
- Historical data covering health metrics and usage patterns
- Dashboards and graphs with convenient filtering and export options

Diagnostics

Users can remotely run an array of status checking tools:

- Network diagnostics like ping, traceroute, speed test
- Cellular health tests show signal strength and quality

Reporting

The system generates various static reports that can be:

- Run immediately, scheduled once, or set to recur
- Exported to spreadsheet applications
- Emailed to multiple recipients
- Monitored through a history interface

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DIGI EX61 5G WITH DIGI VENTUS

Specifications



Manage and configure Digi EX61 5G with Digi Ventus Genesis

Specifications	Digi EX61 5G with Digi Ventus Genesis
WIRELESS INTERFACES	
CELLULAR / WWAN**	
EX61-5B-0N: 5G NR SUB-6 GHZ, COMPLIANT WITH 3GPP RELEASE 17, WITH LTE-ADVANCED PRO FALLBACK	5G NR bands: n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48 (CBRS), n66, n70, n71, n77, n78; Power Class 1.5 (29 dBm): n38, n41, n77, n78; 4G LTE-Advanced Pro bands: B2, B4, B5, B7, B12, B13, B14 (FirstNet®), B17, B25, B26, B29, B30, B38, B41, B42, B43, B48 (CBRS), B66, B71
EX61-5C-0R: 5G NR SUB-6 GHZ, COMPLIANT WITH 3GPP RELEASE 17, WITH LTE-ADVANCED PRO FALLBACK	5G NR bands: n1, n3, n5, n7, n8, n20, n26, n28, n38, n40, n41, n71, n75, n76, n77, n78; Power Class 1.5 (29 dBm): n38, n41, n77, n78; 4G LTE-Advanced Pro bands: B1, B3, B5, B7, B8, B20, B28, B38, B40, B41, B42, B43, B71
ANTENNAS	Internal omnidirectional cellular antennas; no external RF connectors
SIM SLOTS / ESIM SUPPORT	(1) Nano-SIM (4FF) slot; soldered MFF2 Digi eSIM with eUICC (SGP.32) for remote provisioning and carrier switching (user selectable); Dual SIM Dual Standby (DSDS) support
SIM SECURITY	SIM access protected by a cover plate wth two screws and mounting plate security screw
GNSS	
TECHNOLOGY	Passive internal GNSS antenna; GPS, Galileo, BeiDou, GLONASS and QZSS
WIRED INTERFACES	
ETHERNET	
PORTS / CONNECTOR	(1) WAN 2.5 GbE, (1) LAN 2.5 GbE; configurable WAN/LAN operation
SERIAL	
PORTS / CONNECTOR	(1) EIA RS-232/485 RJ-45 serial port for out-of-band management of connected enterprise infrastructure
USB	
PORTS / CONNECTOR	(1) USB Type-C power input with weather-sealed gland retention support
SOFTWARE AND MANAGEMENT*	
REMOTE MANAGEMENT	Digi Ventus Genesis
LOCAL MANAGEMENT	Web UI (HTTPS); CLI (SSH, serial)
MANAGEMENT TOOLS	SFTP, SCP; protocol analyzer with PCAP for Wireshark; event logging with Syslog
MEMORY	
RAM / FLASH	2 GB / 8 GB
POWER REQUIREMENTS	
POWER INPUT	IEEE 802.3af PoE or USB-C (USB PD 3.0 compliant, 15 W minimum)
POWER CONSUMPTION	6 W typical (idle); 15 W peak

*Includes the Digi Ventus solution for Digi EX61 with Genesis, warranty and customer care.
**Visit digi.com/resources/certifications for latest approvals and updates.

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DIGI EX61 5G WITH DIGI VENTUS

Specifications and Technologies



Manage and configure Digi EX61 5G with Digi Ventus Genesis

Specifications	Digi EX61 5G with Digi Ventus Genesis
PHYSICAL	
DIMENSIONS	175 mm x 125 mm x 35 mm (6.89 in x 4.92 in x 1.38 in)
WEIGHT	625 g (1.38 lb)
STATUS LEDS	Power, WWAN, LAN/WAN status
ENCLOSURE / RATING	IP66-rated indoor/outdoor enclosure with wall, pole and ceiling mounting support
ENVIRONMENTAL	
OPERATING TEMPERATURE	−40 °C to 70 °C (−40 °F to 158 °F)
STORAGE TEMPERATURE	−40 °C to 85 °C (−40 °F to 185 °F)
RELATIVE HUMIDITY	5% to 95% (non-condensing)
APPROVALS**	
CELLULAR	EX61-5B-0N: PTCRB, AT&T, T-Mobile, Verizon; visit digi.com/resources/certifications for latest approvals and updates
SAFETY / SECURITY	IEC 62368-1, EN 62311, FIPS 140-3
EMISSIONS/ IMMUNITY	EX61-5B-0N: FCC Part 15 Class B, ICES-003; EX61-5C-0R: CE, UKCA
WARRANTY*	
PRODUCT WARRANTY	Limited lifetime

*Includes the Digi Ventus solution for Digi EX61 with Genesis, warranty and customer care.
**Visit digi.com/resources/certifications for latest approvals and updates.
For a comprehensive list of operating system features, please visit **digi.com/solutions/by-technology/dal-operating-system/features**.

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DIGI EX61 5G WITH DIGI VENTUS

Product Photos

Digi EX61 5G Product Photos

Digi EX61 5G



Digi EX61 5G — front



Digi EX61 5G — left



Digi EX61 5G — right



Digi EX61 5G — back



Digi EX61 5G — top



Digi EX61 5G — bottom



Digi EX61 5G — with mounting accessories



For more information, please visit ventus.digi.com

For more information about Digi Ventus EX61,
visit ventus.digi.com/hardware

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DIGI Ventus
Managed Connectivity Solutions