

Leveraging Digi Solutions for Enhanced Utility Operation

Monitor, manage and control every layer of your utility infrastructure, from embedded modules and cellular routers to serial servers and the sensor edge.

Monitor, Manage, and Control with the Power of Digi.

Utilities face constant pressure to modernize dispersed, aging infrastructure while keeping operations secure, compliant and available around the clock. Digi offers utilities a complete set of solutions across three product families: embedded systems, cellular routers and infrastructure management. Together, they reach remote sites over cellular or wired networks, connect legacy equipment, keep critical networks reachable during outages, track mobile assets, build secure mesh networks for smart meters, and monitor field infrastructure that was previously too costly to instrument. Explore six ways to put the full Digi portfolio to work across your utility operations.

1 Remote Site Management

Digi solutions can be utilized to enable remote site management for utilities with dispersed infrastructure assets. By deploying **Digi AnywhereUSB Plus** teams can extend network-attached USB connectivity to remote sites, protect host PCs, and control USB peripherals from a central location. Where wired links are not available, **Digi IX10 cellular routers** provide secure cellular connections to those sites. Paired with Digi Connect IT 16/48 for out-of-band console access, field teams and control-room operators gain reliable remote management into equipment without a truck roll, reducing travel costs and improving service continuity regardless of site location.

2 Legacy System Integration

Much of the utility grid still runs on serial-based RTUs, meters, protective relays and SCADA equipment that was never designed for IP networks. **Digi Connect EZ** (Mini, 2, 4, 8, 16 and 32-port models) connects legacy RS-232, RS-422 and RS-485 serial devices to modern Ethernet networks with software-selectable port modes, giving utilities a transition path that helps them reuse existing serial equipment as they modernize connectivity, without requiring new enclosures, rewiring or equipment replacement. Where wired links are not available, the **Digi IX30** cellular router bridges serial and Modbus traffic over cellular. Built-in **Digi TrustFence** protects every serial-to-IP connection with device-level security and encrypted communications, so utilities can extend the life of existing assets while closing a common attack surface.

3 Out-of-Band Network Continuity

When storms, equipment failures or cyber events take down the primary network, utilities still need a way in. **Digi Connect IT 16/48** provides dedicated, out-of-band console access to routers, firewalls, RTUs and other critical infrastructure, so operations teams can diagnose and recover systems over a separate serial console path, or over cellular with an optional Digi CORE LTE modem, even when the primary WAN is unreachable. Dual Ethernet, dual SFP+ and field-replaceable dual replaceable redundant power supplies give utilities a dependable recovery path for control and communications equipment during the moments when reliability matters most.

4 Substation and Grid Edge Connectivity

Substations, feeders and distributed energy sites need secure, always-on communications to carry SCADA traffic and telemetry. The **Digi IX cellular router family** gives these sites rugged, carrier-certified connectivity over public and private networks, with support for Anterix, CBRS and AT&T FirstNet. The **Digi IX30 cellular router** adds C1D2 and ATEX ratings, serial and Modbus bridging, dual SIMs and integrated edge computing, so utilities can process data locally and keep the connection resilient. The **Digi IX25 5G cellular router** supports 5G RedCap, eMBB and LTE across public and private networks.

For more information, visit:

www.digi.com

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5 Centralized Management, Security and Lifecycle Support

Digi manages, secures and supports every device in this brief through a common foundation. **Digi Remote Manager** gives utilities a single point of command to deploy, configure, monitor and update thousands of devices at scale, with open APIs for integration into existing OT and IT systems. **Digi TrustFence** provides a consistent, built-in security framework for device identity, authentication and encrypted communications across the fleet.

6 Legacy System Integration

Smart meters, grid sensors and distributed energy assets often sit where a cellular router does not fit and wired links do not reach. Digi XBee modules let utilities and the OEMs that serve them embed wireless connectivity directly into this equipment. **Digi XBee for Wi-SUN** forms secure, self-healing mesh networks that scale from neighborhoods to entire regions, while **Digi XBee RF modules** provide low-power, long-range links to remote sensors. Where a mesh is not practical, **Digi XBee Cellular modems** add pre-certified LTE Cat 1, Cat 4, LTE-M or NB-IoT connectivity. **Digi XBee Studio** and **Digi Remote Manager** handle configuration and remote management.

Explore the Full Digi Portfolio for Utilities

Digi solutions span cellular routers, embedded systems, and infrastructure management, with centralized monitoring and management capabilities.

Remote USB Connectivity

Digi AnywhereUSB Plus: 2 / 8 / 24 Ports

Digi AnywhereUSB Plus extends USB connectivity to remote sites over the network, so utilities can protect host PCs and control peripheral devices from a central location.

- Protects the host PC and network by relocating it to a secure, environmentally protected location while extending connectivity to peripheral devices
- Network-attached USB hubs enable remote or virtual access to USB devices
- Supports multi-host connectivity for each USB port or group independently
- Deploy, monitor and manage devices with Digi Remote Manager
- Includes 1 year of Digi LifeCycle Assurance



Modern Secure Serial Connectivity

Digi Connect EZ: Mini / 2 / 4 / 8 / 16 / 32 / TS

Digi Connect EZ serial servers connect existing RTUs, meters and protective relays to IP networks without replacing equipment.

- RS-232 or RS-232/422/485 software-selectable ports connect a wide variety of serial equipment over IP networks
- Dual 10/100/1000 Ethernet with dual SFP+ support on larger models
- Built-in Digi TrustFence for device security and encrypted connections
- Easy setup and mass configuration with Digi Navigator and Digi Remote Manager
- Includes 1 year of Digi LifeCycle Assurance



Redundant Out-of-Band Management

Digi Connect IT 16/48

Digi Connect IT 16/48 gives operations teams a redundant console path into critical network equipment when the primary network is down.

- 16 or 48 selectable RS-232 serial ports for router, firewall and server console access
- Dual Ethernet, dual SFP+ and dual replaceable redundant power supplies for a highly redundant, dependable design
- Optional Digi CORE LTE modem for out-of-band access during WAN outages
- Buit-in Digi TrustFence for device security and encrypted connections
- Includes 1 year of Digi LifeCycle Assurance



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Remote Asset and Environmental Monitoring

Digi Connect Sensor XRT-M

Digi Connect Sensor XRT-M connects remote field sensors over cellular networks, giving utilities visibility into water, wastewater and environmental assets without extensive site infrastructure.



- Rugged, battery-powered cellular gateway for remote industrial monitoring
- Connects to and powers multiple industry-standard sensors for level, pressure, flow and other measurements
- Native MQTT and Modbus support for integration with Digi Axess or customer systems
- Digi Axess enables device health monitoring, dashboards, configurable reports and alerts
- Configurable sensor reading and reporting intervals to balance visibility and battery life
- Industrial temperature range and Class I, Division 2 certification with NEMA enclosure

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Rugged and Reliable Cellular Connectivity

Digi IX Industrial Routers: IX10 / IX20 / IX25 / IX30 / IX40

The Digi IX family offers five rugged cellular routers, from compact LTE to 5G edge computing, so utilities can match each site to the right router.



- 5G edge computing capabilities with the Digi IX25 and Digi IX40 industrial routers
- Digi IX20 and Digi IX30 provide LTE connectivity, with Digi IX30 built for critical infrastructure
- Digi IX10 offers a compact, economical connectivity option with an industrial feature set for public and private cellular networks
- Support for Anterix, CBRS and AT&T FirstNet on Digi IX25 and Digi IX30, and for CBRS on Digi IX40
- C1D2 ratings on Digi IX10, Digi IX25, Digi IX30 and Digi IX40, with ATEX ratings on Digi IX25 and Digi IX30
- Redundant connectivity with dual SIMs and Digi SureLink
- Global and regional bands with a single part number to simplify distribution, deployment and management
- Built-in Digi TrustFence for device security, device identity and data privacy
- Digi 360 solution with Digi Remote Manager for easy setup, mass configuration and out-of-band management, plus warranty and customer care

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Wireless Connectivity for Meters and Sensors

Digi XBee for Wi-SUN

Digi XBee modules let utilities and equipment makers embed secure wireless connectivity directly into meters, sensors and grid equipment.



- Digi XBee for Wi-SUN modules for secure, self-healing mesh networks that scale from neighborhoods to entire regions
- Industrial operating temperature range of −40 °C to 85 °C (−40 °F to 185 °F) on Digi XBee for Wi-SUN modules
- On-module edge intelligence with custom MicroPython applications on Digi XBee for Wi-SUN modules
- Digi XBee Studio and Digi Remote Manager for configuration, testing and remote management

Ready to map these to your sites? Talk to a Digi expert.

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