



EMBEDDED SYSTEMS, CELLULAR & NETWORKING

NEXT-GENERATION INDUSTRIAL CONNECTIVITY SOLUTIONS

EMBEDDED SYSTEMS



System-on-Modules & Wireless Communication

High-performance embedded solutions for your most demanding applications

CELLULAR ROUTERS



Enterprise, Industrial & Transportation

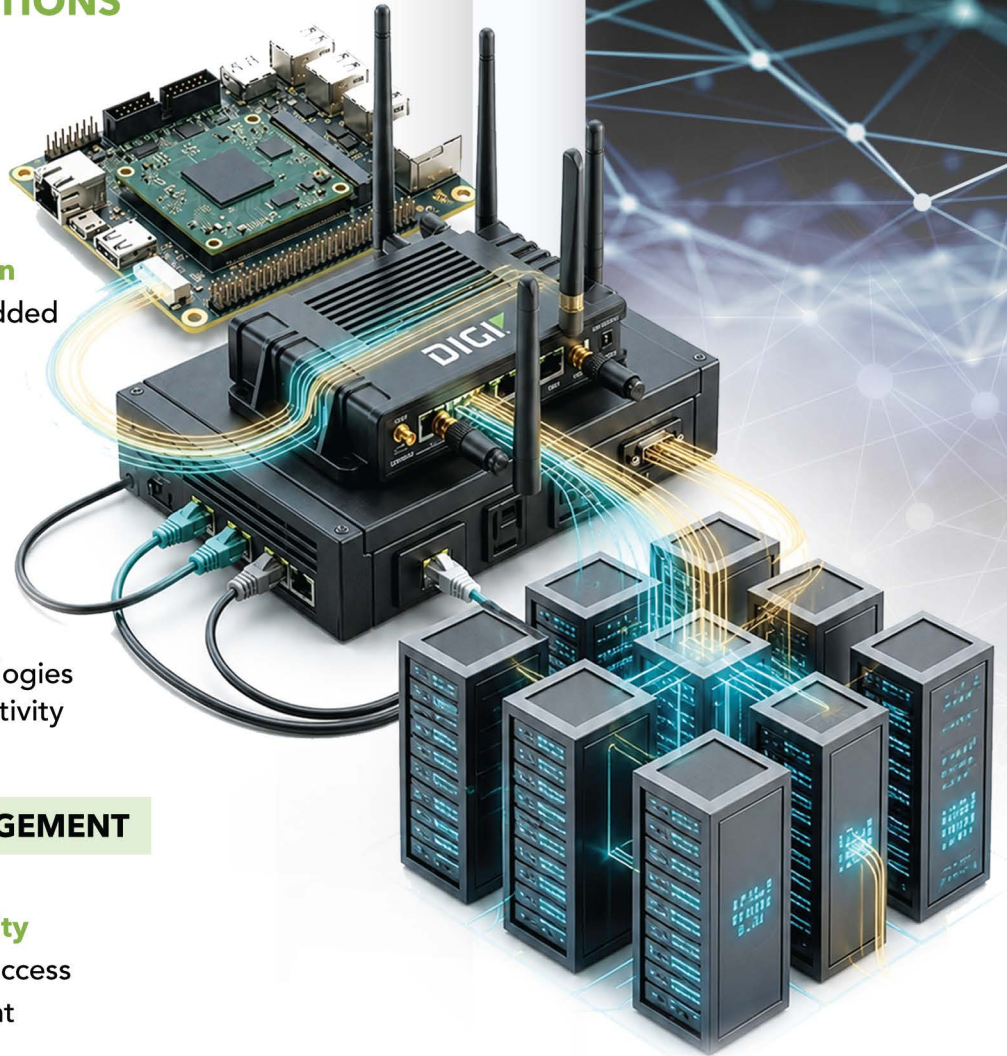
Always connected with advanced cellular technologies for uninterrupted connectivity

INFRASTRUCTURE MANAGEMENT



Console Servers, Serial & USB Connectivity

Reliable, secure remote access and network management



BUILT FOR



Energy & Utilities



Agriculture



Industrial



Medical



Transportation



Oil & Gas



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Rear View Serial Ports
(Console Access)

Details of Serial Connections
(RJ45 Console Port)

Console Server

Out-of-Band
Management

Managed
Server Cluster



INFRASTRUCTURE MANAGEMENT

Secure Remote Access & Resilience, significantly reducing the need for costly on-site technical visits during network outages.



Digi Connect IT (Console Server)

Acts as the central hub within the equipment rack. It connects via serial cables to the console ports of your managed server cluster, switches, and firewalls. Available in 4/ 16/ 48 serial ports



Digi Connect EZ (Serial Connectivity)

Extends connectivity to legacy serial devices (RS-232/422/485) across the floor, converting serial data to Ethernet for modern network integration.

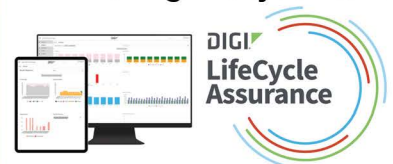


AnywhereUSB Plus (USB Connectivity)

Provides secure, remote access to USB-based peripherals (like license dongles or scanners) over the IP network, virtualizing the USB port for the server cluster.

Component	Role in Infrastructure	Connection Type
Connect IT	Console Management	Serial to IT Assets
Connect EZ	Modernizing Legacy	Serial to Ethernet
AnywhereUSB	Peripheral Virtualization	USB over IP

Now with Digi LifeCycle Assurance





CELLULAR ROUTERS AND EXTENDERS

Ensures a secure local control environment while maintaining a global reach via the Digi cellular backhaul



Enterprise Cellular (EX-Series)

Networking and business continuity for indoor environments, ensure your business environment is connected securely and reliably.



Industrial Cellular (IX-Series)

Machine connectivity for demanding environments, provides rugged, reliable network connectivity and remote management tools for heavy-duty applications.



Transportation Cellular (TX-Series)

Ruggedized for the demands of transit applications, support multiple requirements from one device; these include onboard routing and GPS, security and passenger Wi-Fi.

Component	Function	Application Use Case
Industrial Router (IX)	Rugged, high-reliability	Power plants, factories, water treatment
Enterprise Router (EX)	High-bandwidth, dual-radio	Retail branch offices, digital signage
Transportation Router (TX)	Mobile, GPS, vehicle-hardened	Public transit, emergency services



EMBEDDED SYSTEMS

Embedded systems are designed to be the "brain" inside industrial devices, serves as the core processing engine for an intelligent industrial application.



Digi ConnectCore MP1 SOM
Based on the STM32MP1 MPU Family

The Intelligence Hub (Digi ConnectCore)

ConnectCore SOM (e.g., MP1, MP2, or 93/95 series), which serves as the primary controller.

Edge Computing: Runs Linux or Android frameworks to perform local data analytics and AI/ML inference (e.g., predictive maintenance).

Security: Secured by Digi TrustFence®, providing secure boot, identity, and data privacy features.



Digi XBee 3 Zigbee 3 RF Module
Secure, Pre-certified Wireless Modules

The Wireless Mesh Network (Digi XBee)

The hub communicates with remote sensors or actuators via an integrated XBee module.

Sensor Nodes: Remote XBee modules (Through-hole, SMT, or Micro form factors) collect data from industrial equipment, tanks, or agricultural sensors.

Multiple Protocols: XBee modules support a wide range of protocols, including Zigbee 3.0, Wi-SUN, LoRaWAN, and Cellular (LTE-M/NB-IoT).

Key Product Features Comparison

Feature	Digi ConnectCore (SOM)	Digi XBee (RF/Cellular)
Primary Role	Main Application Processing	Wireless Connectivity
OS Support	Yocto Linux, Android	MicroPython (on-module)
Connectivity	Wi-Fi 6E, Bluetooth 5.x, Ethernet	Zigbee, LoRaWAN, Cellular, Mesh
Intelligence	High-end NPU & Multi-core CPUs	Integrated Edge Logic