



Manage this device with Digi Remote Manager



DIGI IX20



Cloud managed networking for critical applications — rugged, secure LTE router

Digi IX20 is a full-featured cellular router that scales from general connectivity applications to industrial routing and security. Its flexible power and connectivity options make it a versatile choice for use in industrial infrastructure, digital signage, retail kiosks, service terminals and other critical assets with a need for secure transactions.

The high-performance architecture of the Digi IX20 router provides automatic and software-selectable primary and backup WWAN connectivity over multi-carrier cellular LTE. Digi IX20 supports advanced security (stateful firewall, MAC filtering and VPN), cellular redundancy (Digi SureLink®) and management (SNMP, event logging, analyzer trace and QoS), facilitating use in PCI or NERC-CIP compliant applications. FirstNet Ready™ models are designed to meet the demands of primary responders for critical communications.

Gain critical insights into your deployed devices and manage your network with Digi Remote Manager® (Digi RM) — the command center for your deployment. Digi RM is a cloud-based solution that facilitates easy setup, mass configuration, maintenance and support, even for thousands of devices. In the event of an interruption to your primary network connection, Digi RM also provides secure, out-of-band management access to Digi IX20 through a serial port and command-line interface.

The Digi IX20 family of routers has a single part number, which simplifies inventory control for global distribution and deployment. In addition, Digi IX20 is designed for Digi CORE® plug-in LTE modems that can be changed out or upgraded without replacing the entire router.

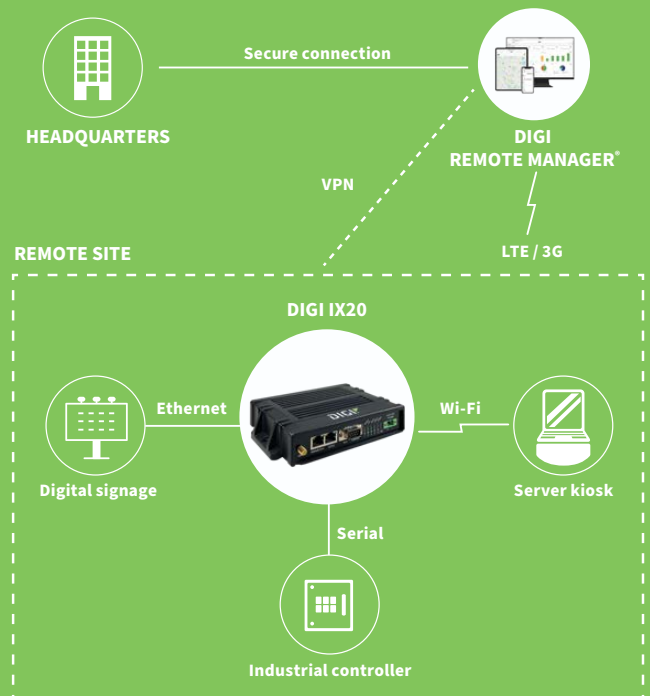
FEATURES AND BENEFITS

- Compact and economical cellular routing platform with industrial feature set
- Redundant connectivity with dual SIMs and Digi SureLink
- FirstNet Ready™ models for first responder communications
- Global bands and single part number to simplify global distribution, deployment and management
- Built-in Digi TrustFence® for device security, secure encrypted connections, ongoing monitoring and support
- Digi Remote Manager platform for easy setup, mass configuration and out-of-band management
- Dual Ethernet ports and single serial (RS-232) port

RELATED PRODUCTS



APPLICATION EXAMPLE



SPECIFICATIONS

DIGI IX20

CELLULAR*

CERTIFICATIONS

Visit www.digi.com/resources/certifications for latest certifications

LTE (G4) WITH DIGI CORE
PLUG-IN LTE MODEM 1002-CMG4

LTE Cat 4: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B38, B39, B40, B41;
3G: B1, B2, B4, B5, B6, B8, B19;
2G: 850 / 900 / 1800 / 1900 MHz

LTE (N4/P4) WITH DIGI CORE
PLUG-IN LTE MODEM 1002-CMF4

LTE Cat 4: B2, B4, B5, B12, B13, B14 (FirstNet®), B66, B71;
3G: B2, B4, B5;

LTE (M1) WITH DIGI CORE
PLUG-IN LTE MODEM 1002-CMM1**

LTE Cat M1/NB1: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28;
2G: 850 / 900 / 1800 / 1900 MHz

LTE-A (16) WITH DIGI CORE
PLUG-IN LTE MODEM 1002-CM16

LTE-Advanced Cat 6: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41;
3G: B1, B5, B6, B8, B9, B19, B39;

CONNECTORS

(2) 50 Ω SMA (center pin: female)

SIM SLOTS

(2) Mini-SIM (2FF)

SIM SECURITY

Secured in cellular module

WI-FI

MODULE

1 x 1 SISO dual-band 802.11a/b/g/n/ac (2.4 GHz / 5 GHz)

AUTHENTICATION

TACACS+, Enterprise RADIUS

MODES

Client mode and access point mode simultaneously

CLIENTS

Maximum 10 clients (access point mode: regardless of combination of clients and access points)

ACCESS POINTS

Maximum 2 access points (access point mode: regardless of combination of clients and access points)

SECURITY

WPA/WPA-2 personal, WPA/WPA-2 enterprise

CONNECTORS

(1) 50 Ω SMA (center pin: male)

SOFTWARE AND MANAGEMENT

REMOTE MANAGEMENT

Digi Remote Manager; SNMP v2/v3 (user installed/managed)

LOCAL MANAGEMENT

Web UI (HTTP/HTTPS); CLI (Telnet, SSH)

MANAGEMENT/
TROUBLESHOOTING TOOLS

FTP client, SCP; protocol analyzer with PCAP for Wireshark; event logging with syslog and SMTP client; NTP/SNTP; Nagios, Intelliflow, iPerf, Dynamic DNS, ping, traceroute

MEMORY

256 MB RAM, 256 MB flash

ETHERNET

PORTS

(2) RJ-45; 10/100 Mbps (auto-sensing)

SERIAL

PORTS

(1) DB9M; RS-232 DTE; signal support TXD, RXD, CTS, DTR, DCD, flow control software (XON/OFF), hardware supported (CTS/RTS)

PHYSICAL

DIMENSIONS (L x W x H)

107 mm x 162 mm x 35 mm (4.21 in x 6.38 in x 1.38 in)

WEIGHT

0.65 kg (1.4 lb)

STATUS LEDs

Power, Internet, Wi-Fi, SIM 1, SIM 2, signal strength (5), LTE

ENCLOSURE

Glass-filled polyphenylene sulphide (PPS) / IP30

POWER REQUIREMENTS

POWER INPUT

9 - 30 VDC, 1.0 A maximum; Connector: 2-position rewirable plug with securing screws included

POWER CONSUMPTION

2.5 W typical (idle); 6 W typical (peak Tx/Rx)

ENVIRONMENTAL

OPERATING TEMPERATURE

Models with Wi-Fi: -20° C to 70° C (-4° F to 158° F)

Models without Wi-Fi: -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)

*Transfer rates are network operator dependent.

**Digi CORE 1002-CMM1 requires only one cellular antenna.

SPECIFICATIONS

DIGI IX20

APPROVALS

CELLULAR

Visit www.digi.com/resources/certifications for latest cellular certifications

SAFETY

IEC62368-1, CB, EN62311

ENVIRONMENTAL

ROHS3

EMISSIONS / IMMUNITY

CE; RED; FCC Part 15, Subpart B; ICES-003; AU/NZS CISPR32

WARRANTY

PRODUCT WARRANTY

3-year*

*Standard 3-year warranty upgradeable to 5 years with purchase of a Digi Remote Manager Premier 5-year subscription applicable to the product purchased only at the time of product purchase and with product registration at that time in Digi Remote Manager.

ENTERPRISE SOFTWARE

DESCRIPTION

PROTOCOL SUPPORT

HTTPS, FTP client, SSL, TLS v1.2, SCP (client and server), SFTP, SMTP client for use by scripts and the command line, SNMP (v2/v3), SSH; remote management via [Digi Remote Manager](#); Protocol analyzer, ability to capture PCAP for use with Wireshark; DynDNS; Dynamic DNS client compatible with BIND9/No-IP/DynDNS; Captive portal, Intelliflow; Nagios, DNS server, NTP server, Multicast, mDNS, IPerf

SECURITY

IP filtering, stateful firewall, custom firewall rules (iptables), address and port translation; TLS 1.2 and above, FIPS 197, open VPN client and server; VPN tunnels; Authentication: RADIUS, TACACS+; certificates; MAC address filtering; VLAN support

VPN

IPSec with IKEv1, IKEv2, NAT Traversal; OpenVPN client and server; GRE VPN tunnels; Cryptology: SHA-1/256/384/512, MD5, RSA; Encryption: 3DES and AES up to 256-bit (CBC mode for IPsec); Diffie Hellman: DH groups 1-32 (CURVE448)

ROUTING / FAILOVER

IP pass-through; NAT, NAPT with IP port forwarding; Ethernet bridging; GRE; Multicast routing; Routing protocols: RIP (v1, v2) OSPF, BGP; IP failover: VRRP; automatic failover, [Digi SureLink](#)

OTHER PROTOCOLS

DHCP; dynamic DNS client compatible with No-IP/DynDNS

PRODUCT IMAGES

FRONT



WITH ANTENNAS



BACK



DIGI REMOTE MANAGER



Digi Remote Manager is the technology platform that brings networks to the next level, allowing networks — and the people who manage them — to work smarter. With Digi Remote Manager you can transform a multitude of dispersed IoT devices into a dynamic, intelligent network. Now you can easily deploy, monitor and diagnose thousands of mission-critical devices from a single point of command — on your desktop, tablet or phone. All the while, its software-defined security diligently safeguards your entire Digi ecosystem.

Learn more at www.digi.com/digi-remote-manager

CAPABILITIES

- Activate, monitor and diagnose your mission-critical devices from a single point of command and control — on your desktop or mobile app
- Schedule key operations — including firmware updates and file management — on a single device or on a group of devices, keeping your network functionality up-to-date and maintaining compliance standards
- Manage edge devices out-of-band via console terminal access
- Keep tabs on device health and connectivity across device deployments of any size
- Create detailed reports and enable real-time alerts for specified conditions
- Integrate device data through open APIs to gain deeper insights and control with third-party applications
- Report and alert on performance statistics, including connection history, signal quality, latency, data usage and packet loss

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
- Open APIs available to support application development

SECURITY

- More than 175 security controls in place to protect your data
- Member of the Center for Internet Security® (CIS®)
- Enables compliance with security frameworks like ISO27002, HIPAA, NIST and more
- Earned Skyhigh's CloudTrust™ Program highest rating of Enterprise-Ready

PART NUMBERS	DIGI REMOTE MANAGER®
DIGI-RM-STD-1YR	Digi Remote Manager Standard - 1-year subscription
DIGI-RM-PRM-1YR	Digi Remote Manager Premier - 1-year subscription
DIGI-RM-PRM-3YR	Digi Remote Manager Premier - 3-year subscription
DIGI-RM-PRM-5YR	Digi Remote Manager Premier - 5-year subscription

PART NUMBERS	DIGI IX20 - PRIMARY RESPONDER
IX20-WAP4	Digi IX20W-PR - Primary Responder (FirstNet) LTE Cat 4 North America, Wi-Fi, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (2) cellular antenna, Wi-Fi antenna and Ethernet cable
IX20-W0P4	Digi IX20W-PR - Primary Responder (FirstNet) LTE Cat 4 North America, Wi-Fi, (2) Ethernet, DB-9 RS-232
IX20-0AP4	Digi IX20-PR - Primary Responder (FirstNet) LTE Cat 4 North America, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (2) cellular antenna and Ethernet cable
IX20-00P4	Digi IX20-PR - Primary Responder (FirstNet) LTE Cat 4 North America, (2) Ethernet, DB-9 RS-232

PART NUMBERS	DIGI IX20
IX20-WA16	Digi IX20W - LTE Cat 6 AU/NZ, Wi-Fi, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (2) cellular antenna, Wi-Fi antenna and Ethernet cable
IX20-WAG4	Digi IX20W - LTE Cat 4 Global, Wi-Fi, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (2) cellular antenna, Wi-Fi antenna and Ethernet cable
IX20-0AG4	Digi IX20 - LTE Cat 4 Global, (2) Ethernet, DB-9 RS-232, includes DIN rail clip, power supply, (2) cellular antenna and Ethernet cable
IX20-W0G4	Digi IX20W - LTE Cat 4 Global, Wi-Fi, (2) Ethernet, DB-9 RS-232
IX20-00G4	Digi IX20 - LTE Cat 4 Global, (2) Ethernet, DB-9 RS-232
IX20-WAN4	Digi IX20W - LTE Cat 4 North America, Wi-Fi, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (2) cellular antenna, Wi-Fi antenna and Ethernet cable
IX20-0AN4	Digi IX20 - LTE Cat 4 North America, (2) Ethernet, DB-9 RS-232, includes DIN rail clip, power supply, (2) cellular antenna and Ethernet cable
IX20-W0N4	Digi IX20W - LTE Cat 4 North America, Wi-Fi, (2) Ethernet, DB-9 RS-232
IX20-00N4	Digi IX20 - LTE Cat 4 North America, (2) Ethernet, DB-9 RS-232
IX20-WAM1	Digi IX20W - LTE Cat M1 Global, Wi-Fi, (2) Ethernet, DB-9 RS-232; includes DIN rail clip, power supply, (1) cellular antenna, Wi-Fi antenna and Ethernet cable
IX20-0AM1	Digi IX20 - LTE Cat M1 Global, (2) Ethernet, DB-9 RS-232, includes DIN rail clip, power supply, (1) cellular antenna and Ethernet cable
IX20-W0M1	Digi IX20W - LTE Cat M1 Global, Wi-Fi, (2) Ethernet, DB-9 RS-232
IX20-00M1	Digi IX20 - LTE Cat M1 Global, (2) Ethernet, DB-9 RS-232

PART NUMBERS	ACCESSORIES
76002104	Power supply with plug tips for US, UK, EU, AU
76002105	Wi-Fi antenna
76002106	Ethernet cable - 2 m (6 ft)
76000926	Cellular antenna 700 MHz to 2.7 GHz
76002093	DIN rail mounting bracket kit
76002095	DIN rail clip kit
76002114	Cellular antenna 600 MHz to 6 GHz

FirstNet® and FirstNet Ready™ are registered trademarks and service marks of the First Responder Network Authority.

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