



RUGGED, SECURE
LTE ROUTER



Manage this device with
Digi Remote Manager

DIGI IX20

Cloud managed networking for critical applications

Digi IX20 is a full-featured cellular router that can scale from basic connectivity applications to industrial-class routing and security solutions. 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 primary and backup WWAN connectivity over software selectable multi-carrier LTE. Digi IX20 supports software features for advanced security (stateful firewall, MAC filtering and VPN), redundancy (Digi SureLink®) and management (SNMP, event logging, analyzer trace and QOS), enabling it to be used in PCI or NERC-CIP compliant applications.

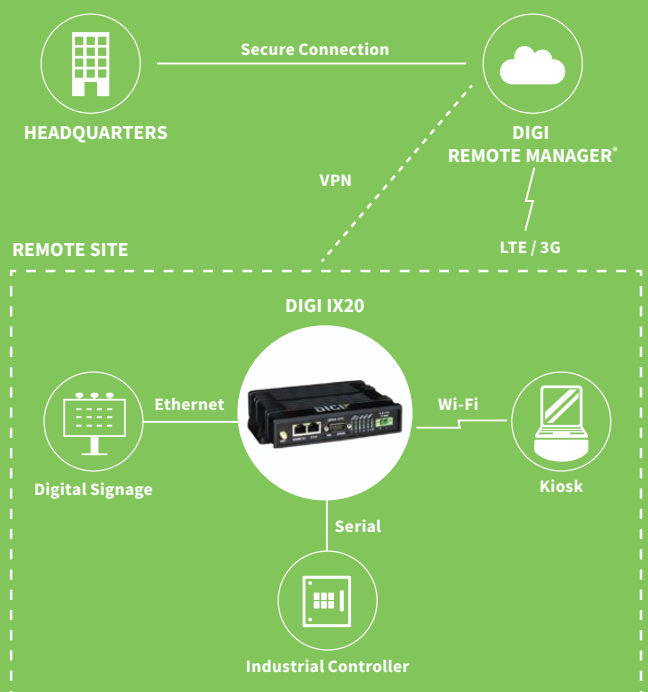
Digi IX20 can be managed with Digi Remote Manager®, a cloud-based solution that facilitates easy setup, mass configuration, maintenance and support for hundreds or even thousands of remote Digi and third-party devices. Digi Remote Manager lets you evaluate, update and configure your Digi enterprise routers and gateways — and the health of your network — at scale, after deployment.

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
- Global bands and single part number to simplify global distribution, deployment and management
- Built-in Digi TrustFence® for device security, device identity and data privacy
- Digi Remote Manager software for easy setup, mass configuration and management
- Dual Ethernet ports and single serial (RS-232) port

APPLICATION EXAMPLE



RELATED PRODUCTS



SPECIFICATIONS

DIGI IX20

CELLULAR

CERTIFICATIONS

Visit <https://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, B13, B18, B19, B20, B25, B26, B28, B38, B39, B40, B41
3G: B1, B2, B4, B5, B6, B8, B19
2G EDGE / GPRS: 850 / 900 / 1800 / 1900 MHz

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

WebUI (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, DynamicDNS, 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

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); device performance may be impacted above 50° C (122° F)

Models without Wi-Fi: -40° C to 70° C (-40° F to 158° F); device performance may be impacted above 50° C (122° F)

RELATIVE HUMIDITY

5% to 95% (non-condensing)

APPROVALS

CELLULAR

Visit <https://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

CELLULAR CONNECTIVITY

PROTOCOL SUPPORT	HTTP, 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; SSL, SSLv2, SSLv3, 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

DIGI REMOTE MANAGER®



CAPABILITIES

- Centralized management of remote devices over 3G/4G/LTE
- Define standard configurations and automatically monitor individual devices for PCI security compliance
- Get alerts and create reports on performance statistics, including connection history, signal quality, latency, data usage and packet loss
- No servers or applications to operate and maintain
- Perform tasks across your entire device network in minutes
- Edit configurations and update firmware for individual devices or groups
- Monitor the status and location of remote devices via a web browser
- Activate or deactivate cellular lines and monitor data consumption to ensure you never incur overage charges

INFRASTRUCTURE

- Hosted in a commercial-grade SAS 70-certified environment
- Superior availability, operating to 99.9% or greater
- Open APIs available to support application development

SECURITY

- Certified SSAE-16 facilities
- Over 175 security controls in place to protect your data
- Enables compliance with security frameworks like PCI, HIPAA, NIST
- Earned SkyHigh's Cloud Trust Program highest rating of Enterprise-Ready

PRODUCT IMAGES

FRONT



WITH ANTENNAS



BACK



PART NUMBERS	DIGI® IX20
IX20-WAG4	Digi IX20 - 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 IX20 - 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

PART NUMBERS	ACCESSORIES
24000155	Power supply with plug tips for US, UK, EU, AU
170017	Cellular antenna
29000863	Wi-Fi antenna
440094	Ethernet cable - 2 m (6 ft)
76002093	DIN rail mounting bracket kit
76002095	DIN rail clip kit