



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 WiFi 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.

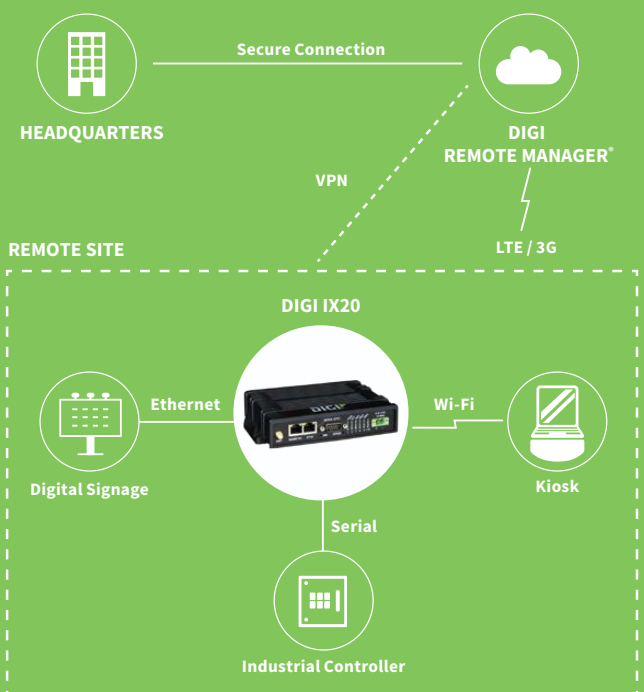
FEATURES AND BENEFITS

- 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

RELATED PRODUCTS



APPLICATION EXAMPLE



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 |

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