



**THE DATASHEET OF
IX20-0AG4**





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.

Gain critical insights into your deployed devices and manage your network with Digi Remote Manager® — the command center for your deployment. Digi Remote Manager (Digi RM) is a cloud-based solution that facilitates easy setup, mass configuration, maintenance and support for hundreds or even thousands of remote Digi devices. Digi RM lets you evaluate, update and configure your Digi enterprise products — 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.

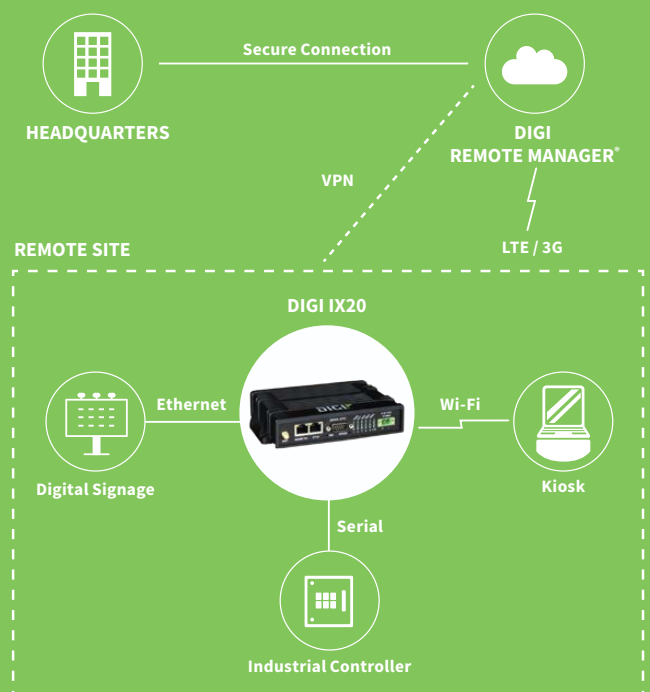
FEATURES AND BENEFITS

- 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, secure encrypted connections, ongoing monitoring and support
- Digi Remote Manager platform 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 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 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, 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

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 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

ENTERPRISE SOFTWARE

DESCRIPTION

CELLULAR CONNECTIVITY

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

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

PRODUCT IMAGES

FRONT



BACK



WITH ANTENNAS



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
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
76002093	DIN rail mounting bracket kit
76002095	DIN rail clip kit

DIGI SERVICE AND SUPPORT / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support.

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-  Shortage Management
-  Alternative Solution
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