DIGI

USAT
Connect What's Critical™

DIGI TX64 5G

High performance cellular router with dual redundant communications for complex transit and transportation systems

Ideal for challenging transportation and mobile environments, Digi TX64 is a 5G and 4G LTE-Advanced Pro cellular router with true enterprise class routing, security, firewall and integrated VPN. It offers a flexible interface design with an integrated Wi-Fi access point, USB, serial and 4-port Gigabit Ethernet switch, as well as a variety of configuration options including dead-reckoning GNSS and Bluetooth®.

Internet access for riders is managed securely and without impact to onboard bus systems. Technologies like 5G NR, EN DC and carrier aggregation deliver up to Gigabit speeds to passengers. Onboard systems retain priority and any remaining bandwidth is made available to Internet traffic.

A captive portal and splash page enable term acceptance, targeted messaging and agency branding. Standard HTTP/DNS redirect can be used to block malware and unwanted content through popular third-party service providers or an agency server.

Reliable power circuitry supports 9-36 VDC input with ignition sense for direct integration into the vehicle's power source. Dual cellular and dual Wi-Fi modules provide true segmented traffic flow of private and public data for fare collection, CAD/AVL data, camera log backhaul and passenger Wi-Fi access.

FEATURES AND BENEFITS

- 5G platform: future-built with powerful quad-core processor
- Segmented private and public data communication across 5G NR Sub-6 GHz and 4G LTE-Advanced Pro Cat 20 modems
- Wired Gigabit Ethernet (4-port) for onboard systems
- Video and vehicle data offload over Wi-Fi 5 4x4 backhaul
- Passenger Wi-Fi over Wi-Fi 5 2x2 access point
- **Digi Remote Manager®** platform for easy setup, mass configuration and management

APPLICATION EXAMPLE
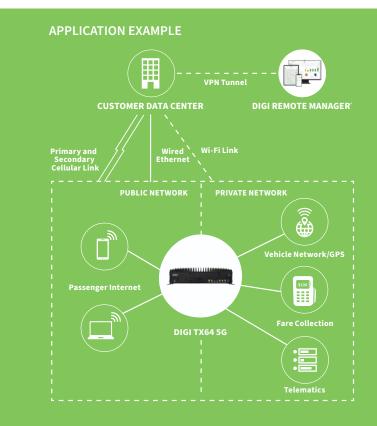

CUSTOMER DATA CENTER

VPN Tunnel

DIGI REMOTE MANAGER*

Primary and Secondary Cellular Link

Wired Ethernet

Wi-Fi Link

PUBLIC NETWORK

PRIVATE NETWORK

Passenger Internet

Vehicle Network/GPS

DIGI TX64 5G

Fare Collection

Telematics

RELATED PRODUCTS

Digi TX54

Digi WR31

Digi WR44 RR

Accessories

Digi Remote Manager*

SPECIFICATIONS	DIGI TX64
WIRELESS INTERFACES	
WWAN*	
5G NR SUB-6 GHZ WITH 4G LTE AND 3G FALLBACK	5G NR Sub-6 bands: n1, n2, n3, n5, n28, n41, n66, n71, n78, n79
4G LTE-ADVANCED PRO WITH 3G FALLBACK	4G LTE-Advanced Pro bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71 3G bands: B1, B2, B3, B4, B5, B6, B8, B9
CONNECTOR	(4) 50 Ω SMA per module (center pin: female)
SIM SLOTS	(2) mini-SIM (2FF) per module (4 total)
SIM SECURITY	SIM slot cover plate included
WI-FI	
DUAL MODULES	Private backhaul: 4 x 4 MU-MIMO 5 GHz 802.11 a/n/ac Wave 2, up to 128 stations per module, 1.733 Gbps (max) Public Wi-Fi: 2 x 2 MIMO 2.4/5 GHz 802.11 a/b/g/n/ac, up to 128 stations per module, 867 Mbps (max)
HOTSPOT	Captive portal, customizable splash page
AUTHENTICATION	Basic ToS acceptance, Enterprise RADIUS
3RD PARTY SERVICES	Content filtering, embedded advertising
MODES	Up to 4 access points and 1 client per Wi-Fi module (8+2 total)
SECURITY	WPA/WPA2-Personal, WPA/WPA2-Enterprise
CONNECTORS	Private backhaul: (4) 50 Ω RP-SMA (center pin: male) Public Wi-Fi: (2) 50 Ω RP-SMA (center pin: male)
BLUETOOTH®	
MODULE	BLE 4.2
GPS	
TECHNOLOGY	Multi-constellation: concurrent reception (GPS, Galileo, GLONASS, BeiDou)
SENSITIVITY	-163 dB
PROTOCOL	NMEA 0183 V 2.3 sentence output
CONNECTOR	(1) 50 Ω SMA (center pin: female); +3.3 VDC active antenna drive
HARDWARE	
SERIAL	
PORTS / CONNECTOR	(1) RS-232; DB-9 male
ETHERNET	
PORTS / CONNECTOR	(4) RJ-45
STANDARD	IEEE 802.3; 10/100/1000 Base-T
USB	
PORTS	3
STANDARD	USB 3.0, Type A
MEMORY	
RAM	2 GB
FLASH	8 GB (CFAST card)
PHYSICAL	
DIMENSIONS	260 mm x 196 mm x 67 mm (10.2 in x 7.8 in x 2.6 in)
WEIGHT	3.3 kg (7.25 lbs)
STATUS LEDS	Power, WWAN (signal, service) per module, Wi-Fi service (per module), GNSS service, LAN (link, activty)
ENCLOSURE	IP40 aluminum alloy
POWER	
POWER INPUT	9 - 36 VDC, 60 W minimum power source required
POWER CONSUMPTION	28 W typical (idle); 41 W (peak RF Tx/Rx)
ENVIRONMENTAL	
MOUNTING	Flexible mounting options
OPERATING TEMPERATURE	-30° C to 70° C (-22° F to 158° F)
STORAGE TEMPERATURE	-40° C to 85° C (-40° F to 185° F)
RELATIVE HUMIDITY	0% to 95% (non-condensing) @ 25° C (77° F)

SPECIFICATIONS	DIGI TX64
NEMA	
SPECIFICATION	Meets or exceeds the NEMA TS2 environmental requirements (-34° C to 74° C temperature range; 18% to 95% humidity over the temperature range; Vibration: 0.5 g @ 5 Hz to 30 Hz; Shock: 10 g)
APPROVALS	
CELLULAR	PTCRB, AT&T; Pending: T-Mobile, Verizon, PNTM; visit www.digi.com/resources/certifications for latest cellular certifications
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	HTTP, HTTPS, FTP client, TLS v1.2, SMTP client for use by scripts and the command line, SNMP (v3), SSH; remote management via Digi Remote Manager®; serial Modbus, MQTT client, protocol analyzer, DynDNS; dynamic DNS client compatible with BIND9/No-IP/DynDNS; DMNR; Dual-APN; X.509 certificate management; VRRP+
SECURITY	IP filtering, stateful firewall, custom firewall rules (iptables), address and port translation; User Authentication: 2-factor 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: groups 1-32
ROUTING/FAILOVER	IP pass-through; NAT, NAPT with IP port forwarding; Ethernet bridging; Ethernet bonding; 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; Nagios, DNS server, NTP server, mDNS, IPerf
LOCAL MANAGEMENT	Web interface (HTTP/HTTS); CLI (SSH, serial port); SNMP v3 read-only; custom factory configuration
MANAGEMENT / TROUBLESHOOTING PROTOCOLS	Protocol analyzer with PCAP for Wireshark, event and system logging (with syslog), accessible from Digi Remote Manager, SFTP or SCP, Intelliflow
PROGRAMMING TOOLS / ENVIRONMENTS	Python v3 (regularly updated to newest version)

PRODUCT IMAGES

FRONT

BACK

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 connectvity 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

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**

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 TX64
TX64-A161	Digi TX64 - 5G / LTE-Advanced Pro, Dual Wi-Fi, UDR, Global
TX64-A161-PR	Digi TX64 - 5G / LTE-Advanced Pro, Dual Wi-Fi, UDR, Global, Primary Responder

PART NUMBERS*	ACCESSORIES
76002076	Digi TX64 power supply
76002087	Digi TX64-A141/TX64-A161 accessory kit (power supply plus antennas)

*Sold separately, unless otherwise noted.

FOR MORE INFORMATION PLEASE VISIT USATCORP.COM/DIGI

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