



# DIGI TX64

## 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 dual cellular LTE-Advanced and LTE-Advanced Pro 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 Ethernet switch, as well as a variety of configuration options including GNSS and Bluetooth®.

Internet access for riders is managed securely and without impact to onboard bus systems. Triple carrier aggregation on each cellular interface can be combined to deliver up to 1.2 Gbps to passengers. Onboard systems retain priority and any remaining bandwidth is made available to Internet traffic.

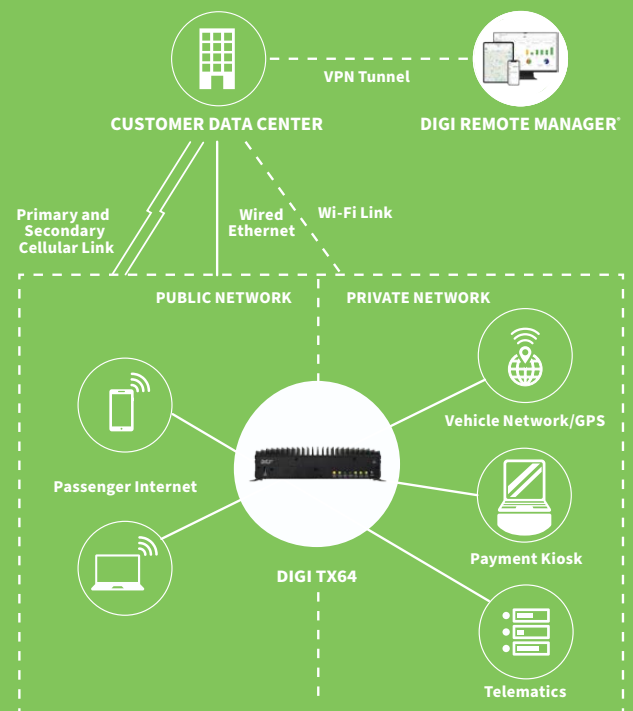
A captive portal and splash page enable term acceptance, targeted messaging and agency branding. Standard HTTP/DNS redirect can be used to block malware and unwanted content through popular third-party service providers or an agency server.

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-ready platform: future-built with powerful quad-core processor
- Segmented private and public data communication across dual 1.2 Gbps LTE-Advanced Pro Cat 18 or LTE-Advanced Cat 11 cellular modules
- Wired Gigabit Ethernet (4-port) for onboard systems
- Video and vehicle data offload over 1.7 Gbps 802.11ac Wi-Fi backhaul
- Passenger Wi-Fi over 867 Mbps 802.11ac access point
- **Digi Remote Manager®** platform for easy setup, mass configuration and management

### APPLICATION EXAMPLE



### RELATED PRODUCTS



## SPECIFICATIONS

## DIGI TX64

## WIRELESS INTERFACES

## WWAN\*

DUAL MODULES  
LTE-ADVANCED WORLDWIDE

LTE FDD: B1 (2100), B2 (1900), B3 (1800), B4 (1700AWS), B5 (850), B7 (2600), B8 (900), B12 (700ac), B13 (700c), B17 (700), B20 (800DD), B25 (1900), B26 (850), B28 (700 APAC), B29 (700), B30 (2300), B66 (1700AWS); LTE TDD: B38 (2600), B40 (2300), B41 (2500); 3G: B1 (2100), B2 (1900), B4 (1700AWS), B5 (850), B8 (900); Transfer rate (max): 600 Mbps down, 75 Mbps up per module (Cat 11)

DUAL MODULES  
LTE-ADVANCED PRO WORLDWIDE  
(FIRSTNET READY™)

LTE FDD: B1 (2100), B3 (1800), B7 (2600), B8 (900), B12 (700ac), B13 (700c), B14 (700PS) - FirstNet®, B20 (800DD), B25 (1900), B26 (US 850 Ext), B28 (700 APAC), B29 (US 700de Lower); B30 (2300 WCS), B32 (1500), B48 (3600), B66 (AWS-3), B71 (600); LTE TDD: B38 (2600), B39 (1900), B40 (2300), B41 (2500), B42 (3500), B43 (3600), B46 (5200); 3G: B1 (2100), B2 (1900), B4 (1700AWS), B5 (850), B8 (900); Transfer rate (max): 1.2 Gbps down, 150 Mbps up per module (Cat 18)

## CONNECTOR

2 x or 4 x 50 Ω SMA per module (center pin: female)

## SIM SLOTS

2 x 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 24 Access Points, up to 256 Client connections

## SECURITY

WPA/WPA2-Personal, WPA/WPA2-Enterprise

## CONNECTORS

Private backhaul: 4 x 50 Ω RP-SMA (center pin: male)  
Public Wi-Fi: 2 x 50 Ω RP-SMA (center pin: male)

## BLUETOOTH®

## MODULE

BLE 4.2

## GPS

## TECHNOLOGY

Multi-constellation: concurrent reception of up to 3 GNSS systems (GPS/Galileo with either GLONASS or BeiDou)

## SENSITIVITY

-163 dB

## PROTOCOL

Protocol NMEA 0183 V 4.0 sentence output

## CONNECTOR

1 x 50 Ω SMA (center pin: female); +3.3 VDC active antenna drive

## HARDWARE

## ETHERNET

## PORTS

4 x RJ-45; 10/100/1000 Mbps (auto-sensing)

## SERIAL

## PORTS

1 x DB9-M; RS-232 DTE; Signal support TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI, software (XON/XOFF) and hardware flow control supported

## USB

## PORTS

1 x USB 3.0 Type A connector

## 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, Ethernet (link, activity)

## 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)

\*Transfer rates are network operator dependent.

## SPECIFICATIONS

## DIGI TX64

NEMA	
<b>SPECIFICATION</b>	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	
<b>CELLULAR</b>	PTCRB, AT&T, FirstNet Ready™, Verizon, PNTM; visit <a href="http://www.digi.com/resources/certifications">www.digi.com/resources/certifications</a> for latest cellular certifications
<b>SAFETY</b>	UL 60950/EN62368, CSA 22.2 No. 60950
<b>EMISSIONS/IMMUNITY</b>	CE, FCC Part 15 Class B, EN55024, EN55032 Class B, EN301489-1/-17
<b>ENVIRONMENTAL</b>	MIL-STD-810G (temperature, humidity, vibration, shock, dust)
<b>VEHICLE</b>	Vehicle-grade certifications: E-Mark (E13), SAE J1113-2 / J1455, ISO 7637-2/3, ISO 10605, ISO16750-2 load dump
WARRANTY	
<b>PRODUCT WARRANTY</b>	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

<b>PROTOCOL SUPPORT</b>	HTTP, HTTPS, FTP client, TLS v1.2, SMTP client for use by scripts and the command line, SNMP (v3), SSH; remote management via <b>Digi Remote Manager®</b> ; serial Modbus, MQTT client, protocol analyzer, DynDNS; dynamic DNS client compatible with BIND9/No-IP/DynDNS; DMNR; Dual-APN; X.509 certificate management; VRRP+
<b>SECURITY</b>	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
<b>VPN</b>	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
<b>ROUTING/FAILOVER</b>	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; <b>Digi SureLink®</b>
<b>OTHER PROTOCOLS</b>	DHCP; dynamic DNS client compatible with No-IP/DynDNS; Nagios, DNS server, NTP server, mDNS, IPerf
<b>LOCAL MANAGEMENT</b>	Web interface (HTTP/HTTPS); CLI (SSH, serial port); SNMP v3 read-only; custom factory configuration
<b>MANAGEMENT / TROUBLESHOOTING PROTOCOLS</b>	Protocol analyzer with PCAP for Wireshark, event and system logging (with syslog), accessible from Digi Remote Manager, SFTP or SCP, Intelliflow
<b>PROGRAMMING TOOLS / ENVIRONMENTS</b>	Python v3 (regularly updated to newest version)

## PRODUCT IMAGES

### FRONT



### 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](http://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 TX64

TX64-A121

Digi TX64 - dual LTE-Advanced Cat 11, dual Wi-Fi, worldwide

## PART NUMBERS\*

### DIGI TX64 FIRSTNET®

TX64-A141

Digi TX64 FirstNet - dual LTE-Advanced Pro Cat 18, dual Wi-Fi, worldwide

## PART NUMBERS\*\*

### ACCESSORIES

76002076

Kit, Digi WR54/WR64 power supply

76002069

Digi TX64/WR64-A121 Accessory Kit

76002087

Digi TX64-A141 Accessory Kit

76000826

Cable - Ethernet, RJ-45 to RJ-45, 2 m

76002090

GNSS Untethered Dead Reckoning - Roof Mount Antenna

76002089

GNSS Untethered Dead Reckoning - Dash Mount Antenna