



DUAL CELLULAR / DUAL WI-FI
5G-READY PLATFORM



Manage this device with
Digi Remote Manager

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.

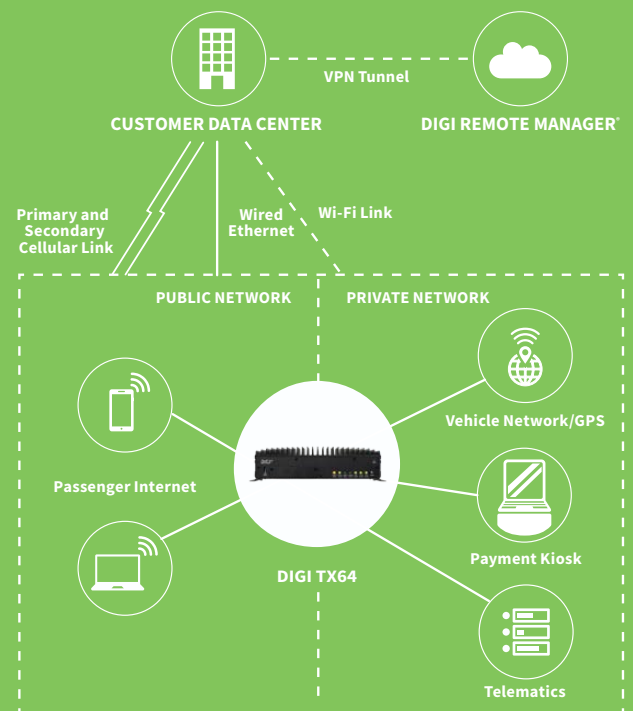
FEATURES AND BENEFITS

- 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
- Securely deploy, monitor and control devices with Digi Remote Manager®

RELATED PRODUCTS



APPLICATION EXAMPLE



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 (HSPA): B1 (2100), B2 (1900), B3 (1800), 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

LTE FDD: B1 (2100), B3 (1800), B7 (2600), B8 (900), B12 (700ac), B13 (700c), B14 (700PS), 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); Transfer rate (max): 1.2 Gbps down, 150 Mbps up per module (Cat 18)

CONNECTOR

2 or 4 x 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, 1.733 Gbps (max)
Public Wi-Fi: 2 x 2 MIMO 2.4/5 GHz 802.11 a/b/g/n/ac, 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 x 50 Ω RP-SMA (center pin: male)
Public Wi-Fi: 2 x 50 Ω RP-SMA (center pin: male)

GPS

TECHNOLOGY

Multi-constellation: concurrent reception of up to 2 GNSS (GPS, Galileo, GLONASS, BeiDou)

SENSITIVITY

-163 dB

PROTOCOL

NMEA 0183 V2.3 sentence output

CONNECTOR

1 x 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, 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
APPROVALS	
CELLULAR	PTCRB, AT&T, Verizon
SAFETY	UL 60950/EN62368, CSA 22.2 No. 60950
EMISSIONS/IMMUNITY	CE, FCC Part 15 Class B, EN55024, EN55032 Class B, EN301489-1/-17
INDUSTRY	MIL-STD 810G (temperature, humidity, vibration, shock, dust) Vehicle-grade certifications: E-Mark (E13), SAE J1113-2 / J1455, ISO 7637-2/3, ISO 10605, ISO 16750-2 load dump
WARRANTY	
PRODUCT WARRANTY	3-year

ENTERPRISE SOFTWARE	DESCRIPTION
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; X.509 certificate management; Dead Reckoning
SECURITY	IP filtering, stateful firewall, custom firewall rules (iptables), address and port translation; SSL, SSLv2, SSLv3; 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; Nagios, DNS server, NTP server, Multicast, mDNS, IPerf
LOCAL MANAGEMENT	Web interface (HTTP/HTTPS); CLI (SSH, serial port)
MANAGEMENT / TROUBLESHOOTING PROTOCOLS	Protocol analyzer with PCAP for Wireshark, event and system logging (with Syslog), accessible from Digi Remote Manager, SFTP or SCP
PROGRAMMING TOOLS / ENVIRONMENTS	Python v3.6.4

PRODUCT IMAGES

FRONT



BACK

