PRELIMINARY DATASHEET

Digi TX65 5G

Rugged 5G vehicle router family with Wi-Fi 7, high-throughput Ethernet and advanced redundancy for critical fleet, transit and mobile industrial systems

Designed for demanding transportation and mobile industrial environments, **Digi TX65** is a rugged 5G vehicle router family built for high-bandwidth, mission-critical connectivity. Digi TX65 delivers enterprise-class routing, security, firewall and VPN capabilities with advanced interfaces including tri-band Wi-Fi 7, 2.5 GbE Ethernet, USB-C and RJ50 serial. Enhanced uplink performance for real-time video, CAD/AVL and telemetry, along with improved mobility handling for high-speed vehicles and dense urban corridors, makes Digi TX65 future-ready for evolving 5G public safety and private network features.

Digi TX65 is centrally managed through **Digi Remote Manager®** (Digi RM), included with the **Digi 360** solution. 5G eMBB with LTE fallback delivers multi-gigabit, high-performance connectivity for riders, operators and onboard systems. A 2.5 GbE WAN port prevents cellular bottlenecks, while four 1 GbE LAN ports support cameras, fare systems and other vehicle subsystems. Bandwidth prioritization ensures onboard operational systems retain precedence, with remaining capacity allocated to passenger or auxiliary internet access.

Captive portals and splash pages for terms acceptance, agency branding and targeted messaging are supported by Digi TX65. Standard HTTP and DNS redirection allows integration with third-party security services or agency-hosted filtering platforms. Configurable redundancy includes single or dual Wi-Fi radios and an optional dual-modem variant for multi-carrier resilience. GNSS enhances fleet visibility, while ignition-aware power and locking connectors ensure reliable operation in harsh vehicle environments.

Cloud-based deployment, lifecycle management, security monitoring and out-of-band access are provided through SOC 2® Type 2-certified **Digi RM**. Digi TX65 also supports **FirstNet Trusted™** and **Verizon Frontline** support to meet the critical demands of first responders for emergency communications, and meets the U.S. government cybersecurity **FIPS 140-2** standard, while **Digi TrustFence®** security framework ensures it stays secure throughout its life.

Digi TX65 5G transportation router solutions

Digi TX65
TX65-5B-1N

Digi TX65
TX65-5B-2N

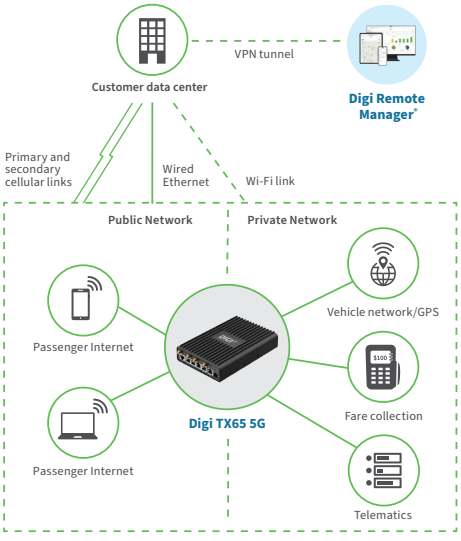
Digi TX65
TX65-5B5A-2N

Digi Remote Manager

Key features, benefits and applications

- 5G eMBB vehicle router family based on Qualcomm SDX72
- Built on a 3GPP Release 17 5G platform enabling higher uplink performance, improved spectral efficiency and enhanced support for public safety and mobility use cases
- Wi-Fi 7 tri-band, dual-concurrent 2.4 and 5/6 GHz per radio, with single or dual-radio options
- Multi-gigabit Ethernet: 2.5 GbE WAN and four 1 GbE LAN ports
- Optional dual-modem configuration for multi-carrier resilience
- GNSS support for fleet visibility and location-aware applications
- Locking USB-C and RJ50 serial for secure peripheral connections
- Ignition-aware power with 9 to 30 VDC vehicle integration input
- Includes the **Digi 360** solution with warranty, customer care and SOC 2 Type 2-certified **Digi Remote Manager** cloud management to deploy, mass configure and maintain in-vehicle devices
- **Digi SAFE™** complete solution for emergency vehicle connectivity
- Value-added services include **Digi Containers**, **Digi WAN Bonding** 5G/LTE WAN aggregation with immediate failover and **Digi Mobile VPN** for secure, persistent mobile connectivity

Application example



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DIGI TX65 5G WITH DIGI 360

Digi 360

Digi 360 offers comprehensive IoT packaged solutions, including purpose-built devices, software and services to help customers optimize their IoT investments and maximize ROI. These solutions are designed to simplify IoT complexity, and ease the challenges enterprises face in configuring, deploying and managing their IoT initiatives. Your Digi 360 subscription is included with the purchase of **Digi TX65 5G**, complete with Digi Remote Manager, warranty and customer care. **Learn more at digi.com/digi360**.

Management

Digi Remote Manager®, our network orchestration platform, provides complete visibility and control, with configuration, remote monitoring, automation, security and OTA software update capabilities.

Device

High-performanace, purpose-built Digi devices, with integrated software, designed to meet the requirements of a wide range of enterprise, industrial, medical and transportation use cases.

360

Warranty

Device warranty covering the full length of the Digi 360 subscription, to help customers maximize their technology investment while limiting risk.

Customer Care

The support plan provides 24 x 7 x 365 tier 1 support with 4-hour SLA for device and network troubleshooting to ensure customers can resolve issues quickly.

Value-Added Services

Digi Containers

Digi Remote Manager enables deployment of custom applications via containers

Digi Containers simplify and centralize the process of building, deploying and running custom applications on devices managed with **Digi Remote Manager** as the central portal. Containers with custom programs or Python applications can be loaded via Digi RM on any device running the **Digi Accelerated Linux** operating system (DAL OS).

As an add-on service to Digi Remote Manager, Digi Containers are a powerful capability implemented via Lightweight Linux Containers (LXC). LXC tools enable developers to package up a custom application, with its dependencies and configuration, into a lightweight, portable bundle that shares only the running kernel with the host device.

Digi WAN Bonding

Resilient connectivity and maximum performance across multiple connections

Digi WAN Bonding combines multiple connections into a seamless and resilient connectivity solution that ensures optimal performance and maximum uptime anywhere around the world.

Digi devices provide a range of connectivity options including cellular failover with features such as **Digi SureLink®**, policy-based routing and interface bonding. These features are excellent at preventing any external network failures from causing downtime.

Digi Mobile VPN

Secure VPN service with persistent connectivity for critical communications

Digi Mobile VPN enables users to create a secure connection between their data centers and the Digi router, including connected (wired or wireless) edge devices. Digi Mobile VPN offers persistent, secure connectivity, utilizing **Digi Remote Manager** as the central portal for orchestrating the mobile VPN setup and deployment.

This functionality is particularly important for public sector, emergency response and mass transit applications that require secure and reliable connections in first responder vehicles, buses, trains and paratransit vans.

*Digi Containers, Digi WAN Bonding and Digi Mobile VPN are available as value-added services with Digi Remote Manager.

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DIGI TX65 5G WITH DIGI 360

Management and Security

Build. Deploy. Manage.

Digi Remote Manager (Digi RM)

Digi Remote Manager is a proven technology platform that brings networks to the next level, empowering networks — and the people who manage them — to work smarter.

Digi RM transforms a multitude of dispersed IoT devices into a dynamic, intelligent network. It's easy to deploy, monitor and diagnose thousands of mission-critical devices from a single point of command on a desktop, tablet or phone. All the while, software-defined security diligently safeguards your entire Digi ecosystem. **Learn more at digi.com/digi-remote-manager.**

Digi RM infrastructure and security

- Hosted in a commercial-grade cloud server environment that meets SOC 1®, SOC 2®, SOC 2® Type 2 and SOC 3® standards
- Superior availability, operating at 99.9% or greater uptime
- Open APIs are available to support application development
- Comprehensive security controls 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 Accelerated Linux (DAL OS)

DAL OS is Digi's standard operating system integrated across an entire range of connected devices. Developed for speed and simplicity, DAL OS enables advanced capabilities that support today's demanding applications. **Learn more at digi.com/DAL.**

Digi TrustFence

The Digi TrustFence device security framework simplifies the process of securing multiple connected devices.

Designed for mission-critical applications, **Digi TrustFence** enables users to easily integrate device security, device identity, and data privacy capabilities into product design. Together with SOC 2 Type 2-certified Digi Remote Manager, Digi TrustFence delivers unified, auditable security and compliance from device to cloud.

Learn more at digi.com/trustfence.

Data plans, Digi RM and DAL OS capabilities

- **Data plans:** Simple, cost-effective global cellular connectivity
- **DAL OS with SOC 2 Type 2-certified Digi Remote Manager:** Remote console access, configuration templates, HTTP proxy, device event logs, configurable maintenance window
- **Serial:** Modbus, serial-over-TCP/UDP
- **Customization:** Python® 3, Python pip, PyCharm® integration, shell scripting, containers, MQTT client
- **Troubleshooting:** iPerf, Ookla Speedtest®, Find Me device discovery
- **GNSS:** NMEA/TAIP location forwarding to servers, geo-fencing
- Activate, monitor and diagnose your mission-critical devices through a single portal
- Schedule key operations — including firmware updates and file management — on a device or group of devices, keeping network functionality up-to-date and maintaining compliance standards
- Manage edge devices out-of-band via console terminal access
- Monitor equipment health and connectivity across deployments
- Create detailed reports and 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

Built-in Security. Delivered.

- **Secure boot:** Programs and code running on the device are validated to be from an approved source or manufacturer
- **Protected hardware ports:** Internal and external I/O ports are hardened and access-controlled to prevent unwanted intrusion
- **Authentication:** Data authentication and device identity management options, with updated user and password settings
- **Secure connections:** Latest encryption protocols for data in motion and over-the-air (OTA) transmissions to ensure integrity
- **Ongoing monitoring and support:** Ongoing threat measurement and monitoring services, with external security audits

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DIGI TX65 5G WITH DIGI 360

Specifications

Manage and configure Digi TX65 5G with Digi Remote Manager

SPECIFICATIONS	DIGI TX65 5G WITH DIGI 360*
WIRELESS INTERFACES	
CELLULAR / WWAN**	
"5B" MODEM: 5G NR SUB-6 GHZ QUALCOMM SDX72, COMPLIANT WITH 3GPP RELEASE 17, WITH LTE FALLBACK	5G NR Sub-6: n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48 **CBRS**, n66, n70, n71, n77, n78; 4G LTE-Advanced Pro: B2, B4, B5, B7, B12, B13, B14 **FirstNet®**, B17, B25, B26, B29, B30, B38, B41, B42, B43, B48 **CBRS**, B66, B71 Power Class 1.5 (29 dBm): n38, n41, n77, n78
"5A" MODEM: SECONDARY 5G NR 3GPP RELEASE 16 SUB-6 GHZ WITH LTE FALLBACK	5G NR Sub-6: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48 **CBRS**, n66, n71, n75, n76, n77, n78, n79, C-band; 4G LTE-Advanced Pro: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14 **FirstNet®**, B17, B20, B25, B26, B28, B29, B30, B32, B38, B40, B41, B42, B43, B46, B48 **CBRS**, B66, B71; WCDMA: B1, B2, B3, B4, B5, B6, B8, B19 Power Class 1.5 (29 dBm): n41, n77, n78, n79
CONNECTORS	Single cellular models: (4) 50 Ω SMA (center pin: female) Dual cellular models: (8) 50 Ω SMA (center pin: female)
SIM SLOTS	(2) nano-SIM (4FF) plus (1) eSIM/eUICC per module (user selectable between one of the 4FF and eSIM slots)
SIM SECURITY	SIM slot cover plate with security screws included
WI-FI	
TECHNOLOGY	Single or dual Wi-Fi 7 (802.11 a/b/g/n/ac/ax/be) radios each supporting tri-band dual-concurrent 2.4 and 5/6 GHz operation
SECURITY	WPA2 and WPA3 Personal and Enterprise, Open and Open Enhanced security standards
HOTSPOT	Captive portal with customizable splash page, terms and conditions, shared password, user-specific password, RADIUS authentication
THIRD-PARTY SERVICES	Content filtering, embedded advertising
MODES	Up to 8 or more access points and up to 64 or more clients
CONNECTORS	Single Wi-Fi: (2) 50 Ω RP-SMA (center pin: male) Dual Wi-Fi: (4) 50 Ω RP-SMA (center pin: male)
GNSS	
TECHNOLOGY	GPS, Galileo, BeiDou, GLONASS and QZSS with multiple geofence support
SENSITIVITY	Tracking and navigation: TBD
PROTOCOL	NMEA 0183 4.0, TAIP
CONNECTOR	(1) 50 Ω SMA (center pin: female); +3.3 VDC active antenna drive
WIRED INTERFACES	
ETHERNET	
PORTS / CONNECTOR	(1) WAN 2.5 GbE, RJ-45 (4) LAN 1 GbE, RJ-45
SERIAL	
PORTS / CONNECTOR	(1) EIA RS-232 DTE / RS-485, 10-pin RJ-50
USB	
PORTS / CONNECTOR	(1) USB 3.1 with DRD (Dual-Role Data) / DRP (Dual-Role Power) support, Type-C
GPIO	
PORTS / CONNECTOR	(1) Digital I/O and (1) ignition sense included with the 4-pin Molex power input connector

*Includes the **Digi 360** solution for **Digi TX65 5G** (1-year) with **Digi Remote Manager**, **warranty** and **customer care**.
Visit **digi.com/resources/certifications for latest certifications and updates.

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DIGI TX65 5G WITH DIGI 360

Specifications and Warranty

Manage and configure Digi TX65 5G with Digi Remote Manager

SPECIFICATIONS	DIGI TX65 5G WITH DIGI 360*
SOFTWARE AND MANAGEMENT*	
REMOTE MANAGEMENT	Digi Remote Manager (cloud based); SNMP v2c/v3 (user installed/managed)
LOCAL MANAGEMENT	Web UI (HTTPS); CLI (SSH, serial)
MANAGEMENT TOOLS	SFTP, SCP; protocol analyzer with PCAP for Wireshark; event logging with Syslog
MEMORY	
RAM / FLASH	2 GB / 8 GB
PHYSICAL	
DIMENSIONS	200 mm x 185 mm x 41 mm (7.87 in x 7.28 in x 1.61 in)
WEIGHT	1.1 kg (2.5 lbs)
STATUS LEDS	Power, WWAN 1, WWAN 2, Wi-Fi 1, Wi-Fi 2, GNSS
ENCLOSURE / RATING	Aluminum alloy / IP64
POWER REQUIREMENTS	
POWER INPUT	9–30 VDC; power source required (TX65-5B-1N: 22 W, TX65-5B-2N: 30 W, TX65-5B5A-2N: 36 W) Ignition sense, reverse polarity protection; 4-pin Molex USB power via 12 V battery pack, Type-C
POWER CONSUMPTION	18 W typical (idle); 36 W (peak RF Tx/Rx —TX65-5B5A-2N)
ENVIRONMENTAL	
OPERATING TEMPERATURE	–40 °C to 75 °C (–40 °F to 167 °F)
STORAGE TEMPERATURE	–40 °C to 85 °C (–40 °F to 185 °F)
RELATIVE HUMIDITY	5% to 95% (non-condensing) at 25 °C (77 °F)
NEMA	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 at 5 Hz to 30 Hz; Shock: 10 g)
APPROVALS**	
CELLULAR	PTCRB, AT&T, T-Mobile, Verizon; Visit digi.com/resources/certifications for latest cellular certifications
SAFETY	EN 62368, EN 62311
VEHICLE	E-Mark (UNECE Reg. 10)
EMISSIONS / IMMUNITY	FCC Part 15 Class B, ICES-003, EN 301 489-1 /-17 /-19 /-52
ENVIRONMENTAL	MIL-STD-810H (temperature, humidity, vibration, shock, dust)
WARRANTY***	
PRODUCT WARRANTY	1-year

*Includes the Digi 360 solution for Digi TX65 5G (1-year) with Digi Remote Manager, warranty and customer care.
For a comprehensive list of operating system features, please visit www.digi.com/solutions/by-technology/dal-operating-system/features.
**Visit digi.com/resources/certifications for latest certifications and updates.
***Product warranty can be extended with Digi 360 extensions or renewals.

5G FIRSTNET Built with AT&T VerizonFrontline OnGo

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Photos

Manage and configure Digi TX65 5G with Digi Remote Manager

Product Photos

Digi TX65-5B5A — front

Digi TX65-5B5A — back

Digi TX65-5B-2N — front

Digi TX65-5B-2N — back

Digi TX65-5B-1N — front

Digi TX65-5B-1N — back

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DIGI TX65 5G WITH DIGI 360

Part Numbers

PART NUMBERS	DIGI TX65 WITH DIGI 360*
TX65-5B-1N	Digi TX65 — 5G/LTE industrial vehicle router with Wi-Fi 7 tri-band, North America
TX65-5B-2N	Digi TX65 — 5G/LTE vehicle / industrial router with dual Wi-Fi 7 tri-band, North America,
TX65-5B5A-2N	Digi TX65 — 5G/LTE vehicle / industrial router with dual-cellular and dual Wi-Fi 7 tri-band, North America,

*Includes the **Digi 360** solution for **Digi TX65 5G** (1-year) with **Digi Remote Manager**, **warranty** and **customer care**.

PART NUMBERS	AVAILABLE ACCESSORIES**
TBD	Digi TX65 Accessory Kit — extended temperature power supply, 5G/GNSS antenna, 4G/GNSS antenna, (2) Wi-Fi antenna, Cat 5e Ethernet cable
TBD	GNSS Untethered Dead Reckoning — dash mount antenna
TBD	GNSS Untethered Dead Reckoning — roof mount antenna

**Sold separately, unless otherwise noted.

PART NUMBERS	DIGI 360 EXTENSIONS AND RENEWALS
DIGI360-TX65-EXT-2YR	Digi 360 extension for two additional years for Digi TX65
DIGI360-TX65-EXT-4YR	Digi 360 extension for four additional years for Digi TX65
DIGI360-TX65-REN-1YR	Digi 360 renewal for one additional year for Digi TX65
DIGI360-TX65-REN-3YR	Digi 360 renewal for three additional years for Digi TX65
DIGI360-TX65-REN-5YR	Digi 360 renewal for five additional years for Digi TX65

PART NUMBERS	VALUE-ADDED SERVICES
DIGI-RM-PRM-CS	Digi Containers subscription — 1-year subscription
DIGI-SRV-WB-TIER1-1YR	Digi WAN Bonding subscription with 100 Mbps max throughput — 1-year subscription
DIGI-SRV-WB-TIER2-1YR	Digi WAN Bonding subscription with 200 Mbps max throughput — 1-year subscription
DIGI-SRV-WB-TIER3-1YR	Digi WAN Bonding subscription with 1 Gbps max throughput — 1-year subscription
DIGI-SRV-MVPN-TIER1-INSTALL	Digi Mobile VPN installation, less than 500 routers (one-time fee, installation for subscriptions up to 500 routers)
DIGI-SRV-MVPN-PR-TIER1-1YR	Digi Mobile VPN subscription (Primary Responder), less than 500 routers — 1-year subscription
DIGI-SRV-MVPN-TIER1-1YR	Digi Mobile VPN subscription, less than 500 routers — 1-year subscription

For more information, visit digi.com.

For more information about Digi TX65 5G, visit **www.digi.com/tx65-5g**.

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