



MultiTech rCell 300 Series

Managed Industrial Cellular
Router supporting LTE Cat 4



mPower
EDGE INTELLIGENCE

MultiTech rCell 300 Series is an industrial-grade LTE Cat 4 edge-intelligent router. It securely connects multiple devices via Serial, Ethernet, or Wi-Fi to the Internet, cloud, and on-premise SCADA platforms. Key features include WAN failover, advanced firewall and routing capabilities, a cloud connector, and the ability to execute edge-native applications.

Featuring an intuitive user interface ideal for OT users in the field and can be managed remotely by IT admins using MultiTech Device Manager for zero-touch provisioning, policy management, application management, and hassle-free over-the-air secure firmware upgrades.

The rCell 300 is programmable and capable of running local applications written in BASH, Python, and C++ that automate and control assets, convert protocols for integration to legacy brownfield systems, cloud platforms including AWS, Azure, data analytic platforms and ERP systems.

This managed cellular router is engineered for dependable, redundant communication in critical remote monitoring systems across enterprises and mission-critical industries.

BENEFITS

- Globally certified and Carrier Approved
- Extended service life
- Remotely manage rCell router fleets with Device Manager

FEATURES

- 4G-LTE cellular with GNSS
- Dual SIM for fallback onto a second cellular network
- Dual-Ethernet ports for WAN and LAN connectivity
- Dual RS-232 and single RS-485 Ports
- Optional Wi-Fi 6, supporting up to 16 devices
- Two-year warranty with option to upgrade to three-years or five-years

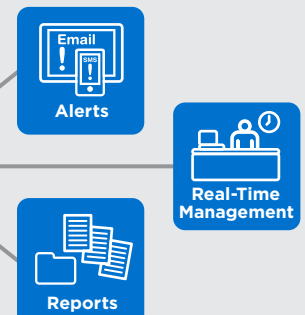
Your Devices & Data



Connecting Your Devices



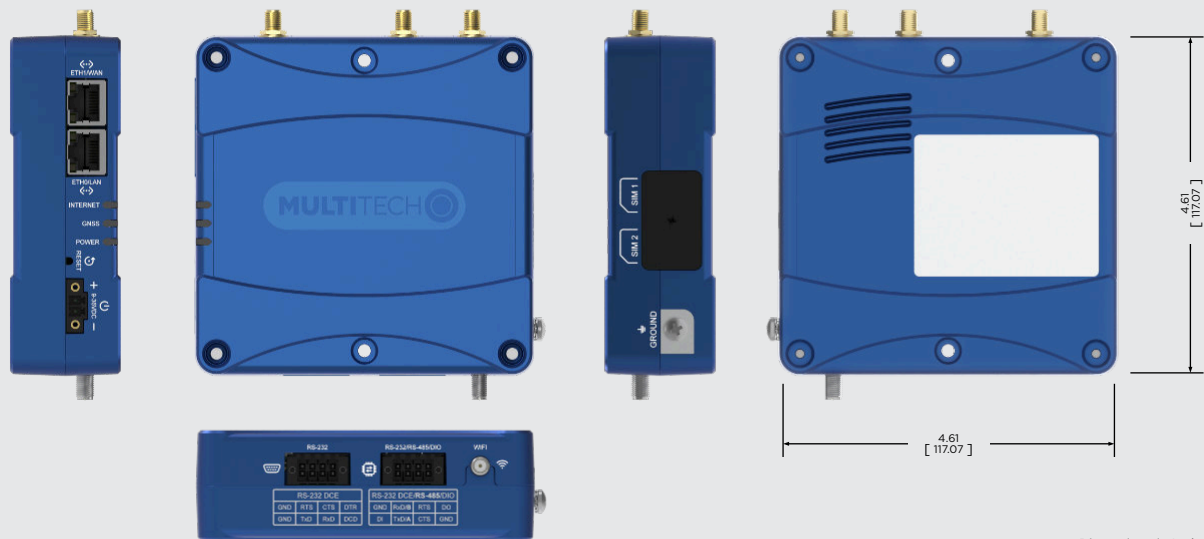
Insight + Action + Control



HARDWARE DESCRIPTION

MultiTech rCell 300 Series

Cellular router supporting LTE Cat 4



Dimensions in Inches [mm]

Enhance security, reduce latency, and lower operational costs with managed edge-native applications

mPower™ Edge

Intelligence software,
a Linux-based operating

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system, simplifies IIoT connectivity by offering secure connectivity management, routing and firewall protocols, cloud connectors, and is programmable using BASH, Python, C++. Simplifying integration with popular upstream IoT platforms, streamlining edge-to-cloud data management and analytics. Moving compute to the edge reduces control latency, cuts operational costs, and ensures core functionality even when network connectivity is unavailable, making the rCell 300 ideal for resilient IIoT applications.

Security

The rCell 300 Series of cellular routers use IPSec industry standard data encryption to provide high performance, secure LAN-to-LAN VPN connections with 3DES or AES encryption using IKE and PSK key management. Support for five concurrent VPN tunnels.

Additionally a private, secure digital signature with integrity check update technique is now available, minimizing file damage, tampering or loading of invalid firmware. MultiTech signs and distributes firmware updates through a secure standard firmware distribution process and verifies the firmware signature before installation of the firmware for maximum device integrity.

Remotely Manage Your Fleet of rCell 300 Routers at Scale

All MultiTech rCell 300 series Routers include a year of Device Manager, a cloud-based service that optimizes performance and remote monitoring, reducing the need for costly truck rolls. Simplified deployments and faster installations are achieved through QR code onboarding using a smartphone, automating setup and provisioning. Users can securely update firmware, deploy and oversee edge applications with full visibility to network and device insights from a unified fleet management console and through APIs into an enterprises single pane of glass.

HARDWARE SPECIFICATIONS

Models	MTR3-L4G2D
Regions	Australia / Canada / European Union / United Kingdom / United States
Performance**	3GPP Release 10 4G-LTE FDD/TDD Category 4 150 Mbps peak downlink 50 Mbps peak uplink with 3G/2G fallback
Frequency Band (MHz)	4G LTE FDD (Europe): B3(1800), B7(2600), B8(900), B20(800) 2G (Europe Fallback): B2(1900), B3(1800), B5(850), B8(900) 4G LTE FDD (AT&T): B2(1900), B4(AWS1700), B12(700), B14 (700-FirstNet) † 4G LTE FDD (Verizon): B4(AWS1700), B13(700) 4G LTE FDD (Anterix): B8-US(900) 4G LTE FDD (APAC): B1(2100), B9(1800), B18(800), B19(850), B26(850), B28(700) 3G: B1(2100), B2(1900), B4(AWS1700), B5(850), B6, B8(900), B19(850) 2G: B2(1900), B3(1800), B5(850), B8(900) 4G LTE FDD Bands: B25(1900)
SMS	Mobile Originate, Mobile Terminated, Point-to-Point
Wi-Fi (AC00PA models)	Wi-Fi 6 IEEE 802.11a/b/g/n/ac/ax Dual band 2.4 / 5 GHz Wi-Fi, channel widths up to 80 MHz 2.4 GHz, channel 1-13 5 GHz, channel 36-177
GNSS (all models)	GNSS Connections: 3 / GNSS Systems Supported: (default: concurrent GPS/QZSS/SBAS and GLONASS)
Connectors	
Connectors (AC00PA Models)	Antenna: (4) SMA (cellular, auxiliary, GNSS, Wi-Fi) SIM: (2) Mini SIM (2FF) 1.8V & 3V (under SIM door) RS-232: (1) 8-wire terminal connector RS232/RS485/DIO: (1) 8-wire terminal connector 9-36 VDC: (1) 2-wire terminal connector (power) RESET: (1) Push-button reset switch ETH0/LAN: (1) Ethernet RJ45 (10/100 BaseT) ETH1/WAN: (1) Ethernet RJ45 (10/100 BaseT)
Connectors (AC00QA Models)	Antenna: (3) SMA (cellular, auxiliary, GNSS) SIM: (2) Mini SIM (2FF) 1.8V & 3V (under SIM door) RS-232: (1) 8-wire terminal connector RS232/RS485/DIO: (1) 8-wire terminal connector 9-36 VDC: (1) 2-wire terminal connector (power) RESET: Push-button reset switch ETH0/LAN: (1) Ethernet RJ45 (10/100 BaseT) ETH1/WAN: (1) Ethernet RJ45 (10/100 BaseT)
Physical Description	
Dimensions (L x W x H)	117.07 x 117.07 x 38.10 mm / 4.61 x 4.61 x 1.50 (inches)
Weight	0.5 Kg / 1 Lb
Chassis	Aluminum (Designed for IP30)
Mounting Options	Desktop / Wall mount (Using WALL-MOUNT accessory) / DIN rail mount (using DIN-MOUNT accessory)
Power Requirements	
Input Power	9 - 36 VDC
Power Draw (AC00PA Models) @ 9VDC	Sleep Mode: N/A Idle: 181 mA Max Power: 550 mA (average)
Power Draw (AC00QA Models) @ 9VDC	Sleep Mode: N/A Idle: TBD mA Max Power: TBD (average)
Environmental	
Operating Temperature****	-40° to +75° C (-40° to +167° F)
Storage Temperature	-40° to +85° C (-40° to +185° F)
Relative Humidity	15% - 93% RH non-condensing
Certifications	
EMC and Radio Compliance	CE, FCC, IC, RCM, UKCA
Safety Compliance	UL/cUL 62368-1 3rd Edition IEC 62368-1 3rd Ed including IP30 AS/NZS 62368.1 3rd Edition
Network Compliance	PTCRB
Network Operator	AT&T, Verizon
Quality	MIL-STD-810G: High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration SAE J1455: Random Vibration and Sine Vibration
Warranty	2-Year warranty, option to upgrade to 3-years or 5-years / www.multitech.com/legal/warranty

* See device guides or AT command guides for additional information.

** Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.

*** For SMS solutions when using the Verizon cellular network, contact a MultiTech sales representative)

**** Device has been tested up to +75° C. UL Recognized @ 40° C, limited by AC power supply. UL Recognized @ 75° C when used with customer-provided DC power cable (see hardware guide for power cable requirements)

***** Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.

† All future end-user (OEM) devices will and must go through FirstNet certification prior to being included in the FirstNet device ecosystem.

ORDERING INFORMATION
rCell 300 Series 4G-LTE Global Models

Table with 3 columns: Model, Description, Region. Rows include MTR3-L4G2D-AC00PA-EWM, MTR3-L4G2D-AC00QA-EWM, MTR3-L4G2D-AC00PA-11M, and MTR3-L4G2D-AC00QA-11M.

ACCESSORY KIT SPECIFICS

Accessory kits differ by model number.

Table with 4 columns: Accessory & Kit Number, 1, 2, 3. Rows include Power Supply, Power Blade(s), Cellular Antenna, Wi-Fi Antenna, GPS/GNSS Antenna, Ethernet Cable, Terminal Block 2 (Power), and Terminal Block 8 (Serial, GPIO).

ADDITIONAL ACCESSORIES

Table with 3 columns: Model, Description, Region. Rows include PS-12VCB-SWC-U-GLOBAL, ANLTE7-XHRA, ANWBT3-XHRA, ANGPS-XMM, TBC-2-X, TBC-8-X, DIN-MOUNT-X, WALL-MOUNT-X, and CA-RJ-45.

Note: Global includes Australia, Canada, European Union, United Kingdom, United States
Use ordering codes for specific build options. Go to www.multitech.com for detailed product model numbers.

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.
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Services & Warranty
MultiTech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership.

Technical Support Services

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit www.multitech.com/support.go

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