



MultiConnect[®] rCell 100 Series

Cellular Routers supporting LTE Cat 4

MultiConnect[®] rCell 100 Series of industrial cellular routers, optimized for secure M2M (machine-to-machine)/Internet of Things (IoT) applications, with mPower[™] Edge Intelligence embedded software, offering a robust Ethernet or serial network interface platform ready to deploy. The intuitive user interface and cloud device management allows for quick configuration and over-the-air upgrades. Enhanced with features such as WAN failover, secure software updates, advanced firewall and routing configuration, and Certificate Management, the MultiConnect rCell 100 Series creates an ideal environment for secure and redundant communications critical to the reliability of remote monitoring systems in a variety of industries.



BENEFITS

- Lowest total cost of ownership
- Long and stable lifecycles
- Certified and carrier approved

FEATURES

- 4G-LTE Cat 4
- Optional GPS & Wi-Fi/BT capabilities
- Flexible Web API for developers based on RESTful JSON over HTTPs
- Ruggedized enclosure
- Designed, manufactured and tested in ISO 13485 facilities
- Remotely hosted device management platform
- mPower Edge Intelligence embedded software

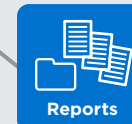
Your Devices & Data



Connecting Your Devices



Insight + Action + Control



HARDWARE SPECIFICATIONS

Models	MTR-L4G1	MTR-LNA7	MTR-LEU7
Cellular Radio	MTQ-L4G1-B02	MTQ-LNA7-B02	MTQ-LEU7-B02
Cellular Performance	4G - LTE Category 4		
Cellular Fallback	3G - HSPA +, 2G - GPRS	3G - HSPA+	3G - HSPA +, 2G - GPRS
Frequency Band (MHz)	4G FDD: B1(2100), B2(1900), B3(1800), B4(AWS1700), B5(850), B7(2600), B8(900), B12/B13(700), B18(850), B19(850), B20(800), B25(1900), B26(850), B28(700) 4G TDD: B38(2600), B39(1900), B40(2300), B41(2500) 3G: B1(2100), B2(1900), B4(AWS1700), B5(850), B6(800), B8(900), B19(850) 2G: B2(1900), B3(1800), B5(850), B8(900)	4G: B2(1900), B4(AWS1700), B5(850), B12(700), B13(700) 3G: B2(1900), B4(AWS1700), B5(850)	4G: B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700) 3G: B1(2100), B8(900) 2G: B3(1800), B8(900)
Packet Data*	4G-FDD: Up to 150 Mbps peak downlink. Up to 50 Mbps peak uplink 4G-TDD: Up to 130 Mbps peak downlink. Up to 30 Mbps peak uplink	Up to 150 Mbps downlink / Up to 50 Mbps uplink	
Diversity/MIMO	Rx Diversity and MIMO DL 2x2		
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS		
Input Voltage	7V to 32VDC		
Wi-Fi/Bluetooth (-B10 Models)	Wi-Fi: 802.11abng (2.4 & 5 GHz) Bluetooth: Classic 4.1 and BLE		
GPS/GNSS (-B10 Models)	GNSS connections: 3 GNSS Systems Supported: (default: concurrent GPS/QZSS/SBAS and GLONASS)		
LEDs	POWER / STATUS / Modem: CD LED (Carrier Detect), LS LED (Link Status) / Signal Strength: 3 LEDs / Ethernet: Link, Speed / Wi-Fi (-B10 models only)		
Connectors			
CELL1, CELL2	(2) Female SMA (Cellular Antenna)		
WIFI (-B10 Models only)	Reverse polarity female SMA (Wi-Fi/BT Antenna)		
GPS (-B10 Models only)	Female SMA (GPS Antenna)		
SIM	Micro SIM Card (3FF); 1.8V and 3V		
E-NET	Ethernet RJ-45, 10/100 BaseT		
RS-232	DE9 (Serial Connection)		
Power	2.5 mm miniature (screw-on)		
Physical Description			
Dimensions (L x W x H)	4.17" x 3.0" x 1.15" (10.6 cm x 7.6 cm x 2.9 cm)		
Weight	0.51 lbs (0.231 Kg)		
Chassis Type	Anodized aluminum (blue) / (IP-Rating: Designed for IP30)		
Environmental			
Operating Temperature*	-40° to +176° F (-40° to +80° C)		
Storage Temperature	-40° to +185° F (-40° to +85° C)		
Humidity	Relative humidity 15% to 93% noncondensing		
Certifications			
EMC Compliance	Australia/New Zealand: CISPR 32 Canada: ICES-003 Class B Europe: CE Mark, UKCA, EN 55032:2012/AC:2013 (Emissions), EN 55032:2015+A11:2020, EN 55024:2010 (Immunity) US: FCC Part 15 Class B	US: FCC Part 15 Class B	Europe: CE Mark, UKCA, EN 55032:2012/AC:2013 (Emissions), EN 55032:2015+A11:2020, EN 55024:2010 (Immunity)
Radio Compliance	Australia/New Zealand: AS/NZS 4268:2012 + A1:2013 MPE Standard 2014 Europe: RED, Article 3.1b EN301 489-1 V2.2.3 EN 301 489-17 V3.1.1 (-B10 models only) EN 301 489-19 V2.1.0 (-B10 models only) EN 301 489-52 V1.1.0 RED, Article 3.2 EN 303 413 V1.1.1 :2017 (-B10 models only) EN 300 328 V2.2.2 (-B10 models only) EN 301 511 V12.5.1 :2017 EN 301 893 V2.1.1 :2017 (-B10 models only) EN 301 908-1 V13.1.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1 MPE/RF Exposure: EN 62311:2008 Canada: ISED US: FCC Part 22, 24, 27	US: FCC Part 22H, FCC Part 24E, FCC Part 27	Europe: RED, Article 3.1b EN 301 489-1 V2.2.3 EN 301 489-17 V3.1.1 (-B10 models only) EN 301 489-19 V2.1.0 (-B10 models only) EN 301 489-52 V1.1.0 RED, Article 3.2 EN 303 413 V1.1.1 :2017 (-B10 models only) EN 300 328 V2.2.2 (-B10 models only) EN 301 511 V12.5.1 :2017 EN 301 893 :2017 (-B10 models only) EN 301 908-1 V13.1.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1 MPE/RF Exposure: EN 62311:2008
Safety	Australia/New Zealand: AS/NZS 60950-1 Canada: cUL 60950-1, cUL 62368-1 Europe: IEC 60950-1, IEC 62368-1 US: UL 60950-1, UL 62368-1	Canada: cUL 60950-1 US: UL 60950-1 2nd ED, IEC 62368-1	Europe: IEC 60950-1:2005 (Second Edition), EN 62368-1:2014 + AC:2017 (Second Edition)
Additional Regulatory Approvals Available (Contact MultiTech for details)	Anatel (Brazil), IFETEL (Mexico), SRRC/CCC/NAL (China), KC (South Korea), NCC (Taiwan, China), JATE/TELEC (Japan), FAC (Russia), NBTC (Thailand), IMDA (Singapore), ICASA (South Africa)	N/A	N/A
Mobile Network Operator Approvals	Australia: RCM, Optus, Telstra, Vodafone Europe: GCF Approved Module, Europe and United Kingdom Network Operators US: PTCRB, AT&T, Verizon	Canada: Bell, Telus US: PTCRB, AT&T, Verizon	Europe: GCF Approved Module, European Network Operators
Additional Mobile Network Operator Certifications Available (Contact MultiTech for Details)	Canada: Rogers, Telus US: US Cellular	Canada: Rogers	N/A
Quality	MIL-STD-810G: High Temp, Low Temp, Random Vibration SAE J1455: Transit Drop & Handling Drop, Random Vibration, Swept-Sine Vibration IEC68-2-1: Cold Temp IEC68-2-2: Dry Heat		
Warranty	2-Years / www.multitech.com/legal/warranty		

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

** MTQ-LNA7-B02 is PTCRB, AT&T, Bell, Telus and Verizon approved

† Device has been tested up to +85° C. UL Recognized @ 40° C, limited by AC power supply. UL Recognized @ 60° C when used with the fused DC power cable, part number FPC-532-DC.

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