MULTITECH®

MultiConnect® rCell 500 Series

LTE Cat 12 CBRS Industrial Router

MultiConnect® rCell 500 Series cellular router extends the reach of private LTE CBRS networks into remote sites that require reliable wireless mobile broadband performance. Enterprise equipment connects using industrial Ethernet, Serial, USB, GPIO interfaces and built-in Wi-Fi, all managed remotely through the MultiTech DeviceHQ service.

Seamless failover capabilities provide customers the added confidence needed when system disruption is not an option. Redundant power supplies and data storage, help ensure continuity of service for critical enterprise assets and applications.

DeviceHQ, built into the MultiConnect rCell 500 Series, includes remote provisioning, Over-The-Air network diagnostics, and firmware updates to securely provision and manage at scale.

BENEFITS

- Enable Field Area Networks (FAN) with high-speed Internet access
- Continuous and reliable broadband connectivity without interruption
- Improved agility to seamlessly connect assets without wiring cables
- Automatic WAN failover, backup, and load balancing
- Eliminate Wi-Fi dead zones at remote sites
- Mobile Wi-Fi hot spot for always-on vehicle connectivity
- Remotely provision, manage security settings, device access and firmware updates with DeviceHQ

FEATURES

- LTE Category 12 performance
- FCC Part 96 authorized end user device for Band 48 OnGo CBRS networks
- Redundant power supply
- Four Gigabit LAN / WAN Ethernet ports
- Up to 64 simultaneous Wi-Fi connections
- Intelligent embedded software includes firewall, QoS, VPN, IPSEC, PPTP, L2TP, GRE Tunnel and OpenVPN capabilities
- Two-year warranty (upgradeable to five years)

Multiple Connectivity Options

Ethernet

- Video Surveillance
- Financial/Retail
- Oil & Gas Platform
- Robotic Production
- Building Automation

Wi-Fi

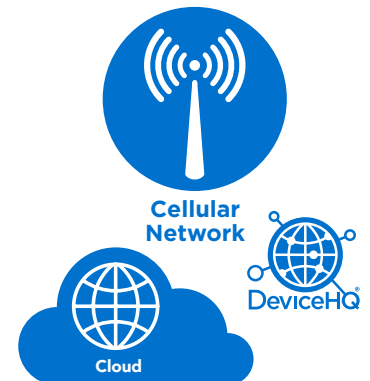- Work Site Management
- In-Vehicle Hotspot
- Remote Monitoring

Serial (RS-232/485)

- Modbus Controller
- Substation Automation

Cellular or Wi-Fi

Wireless Service Provider

Cellular Network

Cloud

DeviceHQ®

Connection Overview

Manage connected assets at scale with DeviceHQ®
Provision and manage the connectivity performance of all your assets from anywhere at any time. Reduce truck rolls, update firmware and custom configurations remotely from a single web based application.

Extend reliable Wi-Fi 5 coverage to eliminate dead zones
Improve worker productivity and mobility within vehicles, school busses, libraries, construction sites, campus, oil fields and more where wired backhaul is not possible and costly. Up to 64 simultaneous Wi-Fi 5 connections in super mobile Wi-Fi hot spot mode.

Connect new and legacy assets using Ethernet, serial and Wi-Fi 5
Broadband low-latency wireless connectivity to multiple new and legacy assets with a diverse array of native wired and wireless interface options. Eliminate expensive data cost and uplink performance restrictions associated with traditional cellular enabled data plans.

HARDWARE SPECIFICATIONS

Model	MTR5-L12G2-B04.R2
Cellular Performance	LTE Category 12
Frequency Bands (MHz)	CBRS (3.5 GHz) TDD: Bands 42 (3500), 43 (3700), 48 (3600)
Packet Data	Up to 600 Mbps downlink / Up to 150 Mbps uplink
Diversity/MIMO	Rx Diversity, MIMO
SMS	Point-to-Point Messaging Mobile-Terminated SMS Mobile-Originated SMS
Input Voltage	9 - 48 VDC Dual Redundant Power
Wi-Fi	Wi-Fi 5 MIMO 2x2 Dual Band 2.4/5 GHz - IEEE 802.11 b/g/n/a/ac
LEDs	13 fit-for-function LEDs communicate device and equipment performance
Connectors	
Cellular Antenna	(2) Female SMA, 2dBi detachable antennas
Wi-Fi Antenna	(2) Reverse polarity Female SMA, 3dBi detachable antennas
SIM Cards	SIM/USIM
LAN	RJ45, 10/100/1000 (3 LAN/1 WAN or 4 LAN) Auto MDI/MDIX
USB	USB 2.0 Storage Support
Serial Port 1	DB9, RS-232 DTE interface
Serial Port 2	3-wire, terminal block, (TXD, RXD and GND) supports RS-232/RS-485 half-duplex
Power Source	Terminal Block Connector Power: 12 - 48 VDC Dual Redundant Power Input
Digital Input/Output	1 Digital input and 1 Digital output
Physical Description	
Dimension (WxDxH)	7.36 x 4.33 x 1.22 inches (187 x 110 x 31 mm)
Weight	1.61 lbs (0.73 kg)
Chassis Type	Metal
Mounting Options	Desktop, wall, DIN rail
Environmental	
Operating Temperature	-4° to 140° F (-20° to +60° C)
Storage Temperature	-40° to 185° F (-40° to +85° C)
Humidity	10% to 95% (non-condensing)
Certifications	
FCC Compliance	FCC Part 15 and Part 96 CBRS
Warranty	2-Years / www.multitech.com/legal/warranty

SOFTWARE SETTINGS AND OPTIONS

Model	MTR5-L12G2-B04.R2
WAN	Cellular: APN Profiles Ethernet: Dynamic IP, Static IP, PPP over Ethernet (PPPoE), PPTP Client, L2TP Client Wi-Fi WISP (Wireless Internet Service Provider) Failover and Load Balancing Functions available
LAN, VLAN	Ethernet LAN, VLAN, Port-based VLAN, Tag-based VLAN, Port Speed
Wi-Fi	Operation Modes: AP Router Mode, WDS Hybrid Mode, and WDS Only Mode Authentication Type: WEP, WPA-PSK, WPA2 (801.11x), WPA-PSK/WPA2-PSK, WPA2-PSK, WPA/WPA2 (802.11x) Wireless Client List: Configurable
IPV6	Static IPv6, DHCPv6, PPPoEv6, IPv6-over-IPv4 and IPv4-over-IPv6 connection types
NAT	Loopback, Virtual Server, Virtual Computers, Special AP & ALG, DMZ
Routing	Static Routing, Dynamic routing protocols (RIPv1, RIPv2, OSPF, BGP)
Client/Server	Dynamic DNS, DHCP Server,
Serial Port 1 Configuration	Virtual COM, TCP Client, TCP Server, UDP, RFC-2217 , or Paknet protocol
Serial Port 2 Configuration	Virtual COM, TCP Client, TCP Server, UDP, or Modbus Gateway
Digital IO	Set up notifying events and manage events using SMS or email messages
Router/Modem Management	HTTP, HTTPS, Backup & Restore Settings, Firmware upgradable through GUI, DeviceHQ
Performance Management	Setup Wizards, QoS prioritizing, Bandwidth management, SSID priority, system log storage, SMS/email alerts
Packet Analyzer	Used to troubleshoot network issues
Cellular Toolkit	* Cellular WAN configuration, APN profiles, cellular QoS Resource * Cellular site survey tool * Send SMS messages to device and activate predefined actions * Receive automatic SMS messages from device when predefined events occur

ADVANCED NETWORKING

Model	MTR5-L12G2-B04.R2
Firewall	Packet Filters, URL Blocking, MAC control (address filtering), IPS (Intrusion Prevention Systems) Options include: Stealth Mode, SPI, Discard WAN PING, HTTP/HTTPS access, TCP Alive
QoS	Configuration, Rule-Based QoS, Cellular QoS
VPN Security Protocols	**IPSec:** Site-to-Site or Dynamic VPN * Tunnels: Up to 8 Concurrent IPSec tunnels * Encryption DES, 3DES, AES-128, AES-192, & AES-256 * Authentication: None, MD5, SHA1, and SHA2-256 **PPTP:** Server or Client mode available **L2TP:** Server or Client mode available **GRE Tunnel** **OpenVPN:** Server or Client mode available
WAN Redundancy	Virtual Router Redundancy Protocol (VRRP)
System Management	TR-069 (Technical Report 069), SNMP (v1, v2, v3), CLI (Command Line Interface), DeviceHQ (device management), Certificate Management

ORDERING INFORMATION

MultiConnect rCell 600 Series

Model	Description	Region
MTR5-L12G2-B04.R2-US	Private LTE OnGo CBRS Cat 12 Industrial Cellular Router with US Accessory Kit	United States

Accessory Kit includes:
Power Supply: (1) Power adapter with region-specific power blade(s)
Antennas: (2) Wi-Fi Antennas, (2) Cellular Antennas
Terminal Block Connectors: (1) Serial Connector, (1) Power Connector
Cables: (1) Ethernet cable
Mounting Hardware: (2) wall-mount brackets, (1) DIN Rail bracket, (4) desk-mount rubber feet
Quick Start Guide

Go to www.multitech.com for detailed product model numbers.

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. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations.

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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