

The MultiConnect® rCell 100 Series of cellular

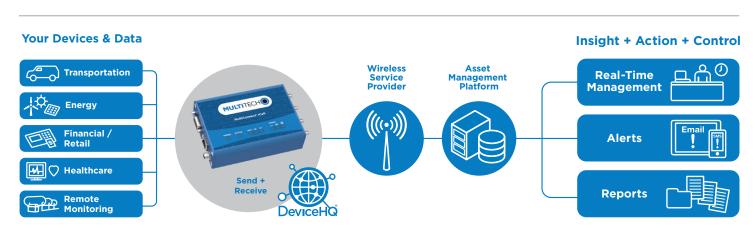
routers, optimized for M2M (machine-to-machine)/Internet of Things (IoT) applications, offer a robust Ethernet or serial network interface platform ready to deploy. The intuitive user interface and free cloud device management (no recurrent monthly fees) allows for quick configuration and over-the-air upgrades. Enhanced with features such as WAN Failover 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.

FEATURES

- 4G-LTE, 3G and 2G cellular technology support
- Flexible Web API for developers based on RESTful JSON over HTTPs
- Ruggedized enclosure -Class I Div 2
- Designed, manufactured and tested in ISO 13485 facilities
- · Remotely hosted device management platform

BENEFITS

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



SPECIFICATIONS

Model	MTR-LAT1	MTR-LVW2	MTR-LEU1	MTR-H5			
Performance		HSPA+					
Frequency Band (MHz)	4G: 700(B17)/850(B5) /AWS1700(B4)/ 1900(B2) 3G: 850(B5)/1900(B2) 2G: 850/1900	4G: 700(B13)/ AWS1700(B4)	4G: 800(B20)/ 1800(B3)/2600(B7) 3G: 850(B5)/ 900(B8)/2100(B1) 2G: 900/1800	3G: WCDMA/HSDPA/ HSUPA 800/850/900/ AWS1700/1900/2100 2G: GSM/GPRS/EDGE 850/900/1800/1900			
Packet Data*	l l	Up to 21.0 Mbps downlink, up to 5.76 Mbps uplink					
Diversity/MIMO		Yes					
SMS	Poir	SMS					
Voltage	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS 7V to 32VDC						
Connectors							
Cellular	Female SMA						
Wi-Fi	Not Available	Not Available	Reverse polar	ity female SMA			
GPS	Female SMA						
SIM	Mini SIM; 1.8 and 3V						
LAN	RJ-45, 10/100 BaseT						
RS-232	DE9						
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		Alum	ninum				
Environmental		-40° to +185° F (-40° to +80° C)					
Operating Temperature [†]		-40° to +185° F (-40° to +85° C)					
Storage Temperature	-40° to +185° F (-40° to +85° C)						
Humidity	Relative humidity 15% to 93% noncondensing						
Certifications							
Regulatory	FCC Class B (US), IC (Canada)	FCC Class B (US)	R&TTE (EU Economic Area)	FCC Class B (US), IC (Canada), R&TTE (EU Economic Area), A-Tick (Australia/NZ)			
Safety	UL60950-1 (US), UL 201 (US) cUL60950-1 (Canada)	UL60950-1 (US), UL 201 (US)	IEC60950-1 (EU Economic Area)	UL60950-1 (US), UL 201 (US), Class I Div 2 (US and Canada), cUL60950-1 (Canada), IEC60950-1 (EU Economic Area), AS/NZS 60950.1 (Australia/NZ)			
Network	AT&T, T-Mobile, Rogers	Verizon	EU carriers	PTCRB, GCF approved module, AT&T, T-Mobile, Telstra, EU carriers Rogers, Pending: Bell, Telus			
Quality	MIL-STD-810: High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration SAE J1455: Random Vibration and Sine Vibration						
Build Options Available		B07, B08, B09, B10, Class I Div 2					

- * Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.
- [†] 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. Note: The radio's performance may be affected at the temperature extremes. This is considered normal. There is no single cause for this function. Rather, it is the result of an interaction of several factors, such as the ambient temperature, the operating mode and the transmit power.

HIGHLIGHTS

Applications

The MultiConnect rCell 100 Series of cellular routers are used in a wide variety of applications such as digital signage, smart vending, smart energy or home medical monitoring. Because the routers are certified and carrier approved, customers are able to quickly deploy with cellular connectivity to realize new revenue streams, expense reduction or improved service offering.

WI-FI/BLUETOOTH SPECIFICATIONS

The Wi-Fi interface can be set up in 802.11 b\g\n Access Point (AP) or client mode. In AP mode, the router can support up to 5 client connections. The Bluetooth serial interface allows you to set up a transparent data pipe from a Bluetooth device to a remote server. The router can be configured using TCP or UDP protocols and supports client and server modes giving you the flexibility you need for your particular application. RFCOM and SPP profile support. Contact MultiTech about additional Bluetooth profile support today.

Security 1

The MultiConnect rCell 100 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.

Wi-Fi

- · 802.11 b\g\n (1x1), 2.5GHz (20MHz BW)
- \cdot 11, 54 and 65 Mbps max theoretical throughput, for 802.11 b\g\n, respectively
- \cdot 20, 15 and 14.5 dBm output power, for 802.11 b\g\n, respectively
- \cdot WEP, WPA, and WPA2 support

Bluetooth

· Version 2.1+EDR · Power Class 1.5 · Data rate 3 Mbps

SPECIFICATIONS

Model	MTR-H6 MTR-EV3		MTR-G3	MTR-C2			
Performance	HSPA	EV-DO	EV-DO GPRS Class 10				
Frequency Band (MHz)	3G: Tri-band 850/900/2100 2G: Quad-band 850/900/1800/1900	Dual-band 800/1900 Quad-band 850/900/1800/1900		Dual-band 800/1900			
Packet Data*	Up to 7.2 Mbps downlink, up to 5.76 Mbps uplink	Up to 3.1 Mbps downlink Up to 1.8 Mbps uplink Up to 85.6K uplink		Up to 153.6K downlink Up to 153.6K uplink			
Diversity/MIMO	No Yes No						
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS						
Voltage		7V to 3	32VDC				
Connectors		7.10.02100					
Cellular	Female SMA						
Wi-Fi	Not Available Reverse polarity female SMA						
GPS	Female SMA						
SIM	Mini SIM; 1.8 and 3V	N/A	Mini SIM; 1.8 and 3V	N/A			
LAN	RJ-45, 10/100 BaseT						
RS-232	DE9						
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 Environmental	Aluminum						
Operating Temperature [†]	-40° to +185° F (-40° to +85° C)						
Storage Temperature	-40° to +185° F (-40° to +85° C)						
Humidity	Relative humidity 15% to 93% noncondensing						
Certifications	Relative numicity 15% to 95% noncondensing						
Regulatory	R&TTE (EU Economic Area), A-Tick (Australia/NZ)	FCC Class B (US)	R&TTE (EU Economic Area)	FCC Class B (US)			
Safety	IEC60950-1 (EU Economic Area), AS/NZS 60950.1 (Australia/NZ)	UL60950-1 (US), UL 201 (US), Class 1 Div 2 (US and Canada)	IEC60950-1 (EU Economic Area)	UL60950-1 (US), UL 201 (US)			
Network	GCF, Telstra, EU carriers	Aeris, Verizon, Sprint	EU carriers	Verizon, Aeris			
Quality	MIL-STD-810: High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration SAE J1455: Random Vibration and Sine Vibration						
Build Options Available	B16, B18, B19	B07, B08, B09, B10	B16	B16, B17			

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

BUILD / ORDERING OPTIONS (FOR MODELS WITH ACCESSORY KITS)

Build Number	Power Supply	Cellular Antenna	Ethernet Cable	GPS Antenna	Wi-Fi Antenna
B07	X	X	X		
B08	X	X	×	×	
B09	X	X	×		X
B10	X	×	×	×	X
B16	X	×	×		
B17	X	X	X	X	
B18	X	X	X		X

[†] 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. Note: The radio's performance may be affected at the temperature extremes. This is considered normal. There is no single cause for this function. Rather, it is the result of an interaction of several factors, such as the ambient temperature, the operating mode and the transmit power.

SOFTWARE SPECIFICATIONS

Security

SPI Firewall

Wizard for creating port forwarding and outbound traffic blocking rules

Advanced settings allows users to specify DNAT, NAT-T, SNAT, and Filter rules for accepting, rejecting, dropping, and logging packets

SSL Certificate Management

SSL on Serial Port

MAC Filtering

Accept, reject, drop and/or log packets based on their MAC address

Tunneling

IPSec VPN

IKE with 3DES, AES-128, 192 and 256 encryption (up to 5 connections)

GRE tunneling

VPN passthrough support

Easy to use Wizards

Configurable IP Defense

Denial-of-Service

ICMP/Ping Flood

Brute Force Access

Management

Hosted device management with MultiTech DeviceHQ

API (RESTful JSON over HTTPs)

SMS messaging via API

Firmware Upgradeable through GUI, API or DeviceHQ

Configuration file save and restore

User-defined default configuration can be saved and recovered on device

Troubleshooting options

Downloadable logs Remote Syslog Auto-reboot Configurable to time of day Diagnostics over SMS Radio Terminal Ping Test RF survey tool Remote reboot over SMS Statistics on system performance, Ethernet, Wi-Fi, cellular, tunnel interfaces, and serial and Bluetooth usage

Data usage alerts

SMS and email

Useability

Start up wizard to activate and configure device

Context sensitive help/ Help-On-Hover pop-ups

Documentation integrated into Web GUI

Customizable GUI

Upload logos, labels, and color schemes

Customize support contact information

Flexibility

WAN Failover

Wi-Fi models only

IP Pass-through

Dynamic DNS (DDNS)

(Enables private LAN access with port forwarding)

Forwarding DNS Server

DHCP Server

Supports fixed and dynamic IP addresses

Configurable SNTP client

Serial Port (RS-232)

PAD - Packet Assembler/ Disassembler

TCP/UDP protocols

Supports client and server modes

Configurable MODBUS Pass-through

Bridges serial MODBUS RTU traffic to MODBUS

Allows a MODBUS TCP Master to communicate with a MODBUS RTU slave connected to the serial port

Persistent Connectivity/ Keep-Alive

Active and passive cellular link monitoring (automatic repair of the cellular PPP connection)

Active mode (ICMP or TCP) feature is configurable to ping or connect to a server at specified intervals Passive mode monitors cellular connection for traffic for a configurable

time period Dial on Demand

Maintains cellular connection only when there is traffic to send

Wake Up on Call

Establishes a cellular connection upon a wake up event such as Ring, Caller ID or SMS

GPS

Client

Server and client modes provide configurable NMEA data to external devices (LAN and/or WAN)

Serial port dump

Protocols

Network: TCP/IP, UDP/IP, DNS, SSL/TLS, PAP, CHAP, idle time

Routing: NAT, Host Port Routing, DHCP, PPP, Static Routes

WWW.MULTITECH.COM/BUY

Application: Telnet/SSH Serial: TCP/UDP PAD Mode, MODBUS RTU Bluetooth: TCP/UDP PAD Mode, SPP, RFCOMM GPS: NMEA TCP/UDP Server/

CONNECT WITH A MULTITECH DISTRIBUTOR OR RESELLER TO ORDER YOURS TODAY

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

Trademarks and Registered Trademarks: MultiTech and the MultiTech logo, MultiConnect: Multi-Tech Systems, Inc. All other products and technologies are the trademarks or registered trademarks of their respective holders.

2016-07 • 86002163 • © 2016 Multi-Tech Systems, Inc. All rights reserved.

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.

INSTALLATION SUPPORT

MultiTech's Installation Support Service delivers priority service with the ability to work one-onone with an experienced MultiTech technical support engineer, to guide you through the installation process for our products.

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

World Headquarters

Multi-Tech Systems, Inc. 2205 Woodale Drive Mounds View, MN 55112 U.S.A. Tel: 763-785-3500 Toll-Free: 800-328-9717 Email: sales@multitech.com www.multitech.com

EMEA Headquarters

Multi-Tech Systems (EMEA)
Strata House
264-270 Bath Road
Harlington UB3 5JJ
United Kingdom
Tel: +(44) 118 959 7774
Email: sales@multitech.co.uk
www.multitech.co.uk



AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com