MULTITECH

CREATE • CONNECT • COMMUNICATE

MultiConnect® Cell 100 Series

Cellular Modems

The **MultiConnect® Cell 100 Series** cellular modems are a part of MultiTech's comprehensive line of modems for M2M (machine-to-machine) communications. All MultiConnect Cell 100 Series modems are fully certified and carrier approved, so you can get to market extremely fast, allowing customers to start obtaining the benefits of M2M. Designed specifically for M2M applications, they provide a long, stable lifecycle and are durable, reliable and easy to deploy. In addition, the MultiConnect Cell 100 Series is available with several different interface options to cover a variety of application needs.

FEATURES

· 4G, 3G and 2G models available

· LTE, GSM and CDMA models available

· Models with USB or RS-232 Serial interfaces

· Configured using AT commands

· FCC, PTCRB, Industry Canada, and R&TTE certified

· Rugged, military and SAE tested

· Two-year warranty, upgradable to five years

BENEFITS

· Quick deployments to shorten time to market

· Long and stable lifecycles
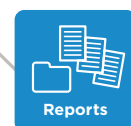
· Certified and carrier approved

Your Devices & Data

- Digital Signage
- ATM/POS
- Vending Machines
- Kiosks
- Energy
- Financial / Retail
- Healthcare

Connecting Your Devices

Insight + Action + Control

- Email
- Alerts
- Reports
- Real-Time Management

Wireless Service Provider

Asset Management Platform

Datasheet • www.multitech.com/cell100

SPECIFICATIONS

Model	MTC-H5	MTC-EV3	MTC-G3	MTC-C2
Performance	HSPA+	EV-DO	GPRS Class 10	1xRTT
Frequency Band (MHz)	Hepta-band 850/900/ AWS 1700/1900/2100	Dual-band 800/1900	Quad-band 850/900/1800/1900	Dual-band 800/1900
Packet Data*	Up to 21.0 Mbps downlink Up to 5.76 Mbps uplink	Up to 3.1 Mbps downlink Up to 1.8 Mbps uplink	Up to 85.6 K downlink Up to 85.6 K uplink	Up to 153.6 K downlink Up to 153.6 K uplink
SMS	Text & PDU, Point-to-Point		Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS	
Operating System Support	Windows XP/Vista/7/8/2007/2008 (32-bit/64-bit), 2003 (32-bit) Linux (2.6.x or greater)			
Power Requirements				
Voltage	**USB Models:** USB powered **RS-232 Models:** 7 - 32VDC			
Connectors				
RF Antenna	50 ohm SMA (female connector)			
SIM	Mini SIM; 1.8 and 3V	N/A	Mini SIM; 1.8 and 3V	N/A
USB	Type B mini			
RS-232	DE9			
Power	**RS-232 Models:** 2.5 mm miniature (screw-on)			
Physical Description				
Physical Dimensions (L x W x H)	3.17″ x 2.45″ x 1.16″ (8.05 cm x 6.22 cm x 2.95 cm)			
Physical Weight	0.65 lbs (0.295 Kg)			
Chassis Type	Aluminum			
Environmental				
Operating Temperature[†]	-40° to +185° F (-40° to +85° C)			
Storage Temperature	-40° to +185° F (-40° to +85° C)			
Relative Humidity	15% to 93% noncondensing			
Certifications				
Regulatory Compliance	FCC Class B (US), IC (Canada), R&TTE (EU Economic Area, A-Tick (Australia/NZ), and IFT (Mexico)	FCC Class B (US)	R&TTE (EU Economic Area)	FCC Class B (US)
Safety	UL 60950-1 (US), cUL 60950-1 (Canada), IEC60950-1 (EU Economic Area), AS/NZS 60950-1 (Australia/NZ)	UL 60950-1 (US)	IEC60950-1 (EU Economic Area)	UL 60950-1 (US)
Network	PTCRB, GCF approved module, AT&T, T-Mobile, Rogers, Bell, EU carriers **Pending:** Telus, Telstra	Verizon, Aeris	GCF approved module (EU carriers)	Verizon, Sprint, Aeris
Quality	**MIL-STD-810:** High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration **SAE J1455:** Random Vibration and Sine Vibration			

* 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.

SPECIFICATIONS

Model	MTC-LAT1	MTC-LVW2
Performance	LTE	
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)
Packet Data*	Up to 100 Mbps downlink/ Up to 50 Mbps uplink (Category 3)	
Diversity/MIMO	Rx Diversity and MIMO DL 2x2	
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS	
Operating System Support	Windows XP/Vista/7/8/2007/2008 (32-bit/64-bit), 2003 (32-bit) Linux (2.6.x or greater)	
Power Requirements		
Voltage	**USB Models:** USB powered **RS-232 Models:** 7 - 32VDC	
Connectors		
RF Antenna	50 ohm SMA (female connector)	
SIM	Mini SIM; 1.8 and 3V	
USB	Type B mini USB	
RS-232	DE-9 (female connector)	
Power	**RS-232 Models:** 2.5 mm miniature (screw-on)	
Physical Description		
Physical Dimensions (L x W x H)	3.17" x 2.45" x 1.16" (8.05 cm x 6.22 cm x 2.95 cm)	
Physical Weight	0.65 lbs (0.295 Kg)	
Chassis Type	Aluminum	
Environmental		
Operating Temperature†	-40° to +185° F (-40° to +85° C)	
Storage Temperature	-40° to +185° F (-40° to +85° C)	
Relative Humidity	15% to 93% noncondensing	
Certifications		
Regulatory Compliance	FCC Class B (US), IC (Canada), R&TTE (EU Economic Area), A-Tick (Australia/NZ - Pending)	FCC Class B (US)
Safety	UL 60950-1 (US), cUL 60950-1 (Canada), IEC60950-1 (EU Economic Area), AS/NZS 60950-1 (Australia/NZ - Pending)	UL 60950-1 (US)
Network	PTCRB, GCF approved module, AT&T, T-Mobile, EU carriers **Pending:** Rogers, Bell, Telus, Telstra	Verizon
Quality	**MIL-STD-810:** High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration **SAE J1455:** Random Vibration and Sine Vibration	

* 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 Cell 100 Series cellular modems are ideal for automated machine-to-machine applications such as remote diagnostics and remote monitoring which periodically need to send or receive data over a wireless network.

Comprehensive Service and Support

The MultiTech commitment to service means we provide a two year product warranty and service that includes free technical support, 24 hour website, and FTP support.

ORDERING INFORMATION

HSPA+ Global Products

Model	Description	Bundle Available	Region
MTC-H5-B01-xx	HSPA+ Cellular Modem (RS-232 interface)	Yes	Global
MTC-H5-B03-KIT	HSPA+ Cellular Modem (USB interface)	Included	Global
-xx Ordering Codes for MTC-H5 Models			
Blank	Device only, no accessories		
-US-EU-GB	Includes US, EU & UK style power supply, antenna(s) and RS-232 cable		
-KIT	Includes antenna and USB cable (USB models only, USB powered)		

GPRS Products for Europe

Model	Description	Bundle Available	Region
MTC-G3-B06-xx	GPRS Cellular Modem (RS-232 interface)	Yes	EU
MTC-G3-B08-KIT	GPRS Cellular Modem (USB interface)	Included	EU
-xx Ordering Codes for MTC-G3 Models			
Blank	Device only, no accessories		
-EU-GB	Includes EU & UK style power supply, antenna(s) and RS-232 cable		
-KIT	Includes antenna and USB cable (USB models only, USB powered)		

EV-DO Products for United States*

Model	Description	Bundle Available	Region
MTC-EV3-B01-Nxx-xx	EV-DO Cellular Modem (RS-232 interface)	Yes	US
MTC-EV3-B03-Nxx-KIT	EV-DO Cellular Modem (USB interface)	Yes	US

* Not available for Sprint Networks.

1xRTT Products for United States

Model	Description	Bundle Available	Region
MTC-C2-B06-Nxx-xx	1xRTT Cellular Modem (RS-232 interface)	Yes	US
MTC-C2-B08-Nxx-KIT	1xRTT Cellular Modem (USB interface)	Yes	US
-xx Ordering Codes for MTC-EV3 and MTC-C2 Models			
Blank	Device only, no accessories		
-US	Includes US style power supply, antenna(s) and RS-232 cable		
-Nxx Carrier Codes for MTC-EV3 and MTC-C2 Models			
-N2	For Sprint Networks		
-N3	For Verizon Wireless Networks		
-N16	For Aeris Communications Networks		

LTE Products

Model	Description	Bundle Available	Region
MTC-LAT1-B01-xx	LTE Cat 3 Cellular Modem (RS-232 interface) - AT&T	Yes	US
MTC-LAT1-B02-xx	LTE Cat 3 Cellular Modem with GPS (RS-232 interface) - AT&T	Yes	US
MTC-LAT1-B03-KIT	LTE Cat 3 Cellular Modem (USB interface) - AT&T	Included	US
MTC-LVW2-B02-xx	LTE Cat 3 Cellular Modem with GPS (RS-232 interface)	Yes	US
MTC-LVW2-B01-xx	LTE Cat 3 Cellular Modem (RS-232 interface) - Verizon	Yes	US

Use ordering codes for specific build options.
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.

INSTALLATION SUPPORT

MultiTech's Installation Support Service delivers priority service with the ability to work one-on-one 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

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