



# MultiConnect<sup>®</sup> Cell 100 Series

## Cellular Modems

The MultiConnect<sup>®</sup> Cell 100 Series cellular modem is a compact communications platform that provides cellular capabilities for fixed and mobile applications. It is intended for use in settings demanding reliable performance under rugged conditions, low power and long range such as remotely monitoring solar micro-inverters, power generators, tanks, pipelines, meters, pumps and valves in any energy, utility, or industrial application. The MultiConnect Cell 100 Series family has also been successfully deployed by professionals in emergency services, vending, remote patient monitoring, renewable energy systems, End-of-Train system management and process automation. MultiConnect Cell 100 Series modems are fully certified for deployment in multiple geographies around the world, so you can get to market extremely fast. Designed specifically for M2M applications, they provide a long, stable lifecycle and are durable, reliable and easy to deploy.

### BENEFITS

- Quick deployments to shorten time to market
- Long and stable lifecycles
- Certified and carrier approved

### FEATURES

- 4G-LTE Cat 4 and Cat M1 models
- SSL/TLS support
- Models with USB or RS-232 serial interfaces
- Configured using AT commands
- FCC, PTCRB, Industry Canada, and RED certified
- Rugged, military and SAE tested
- Two-year warranty, upgradable to five years

### Your Devices & Data



### Connecting Your Devices



Wireless Service Provider

### Insight + Action + Control



## SPECIFICATIONS

Models	MTC-MNA1	MTC-LNA4	MTC-LEU4
Performance	LTE Cat M1	LTE Cat 4	
Frequency Band (MHz)	AT&T: 3GPP Rel. 13 B2 (1900MHz), B4 (AWS1700MHz), B12 (700MHz) Verizon: B4 (AWS1700MHz), B13 (700MHz)	3GPP Rel. 13 4G:700(B12/B13)/850(B5)/AWS1700(B4) 1900(B2) 3G AT&T only: 850(B5)/1900(B2)	3GPP Rel. 13 4G: B1 (2100)/B3 (1800)/B7 (2600)/B8 (900)/ B20 (700) 3G: B1 (2100)/B8 (900) 2G: B3 (1800)/B8 (900)
Packet Data*	Up to 300 Kbps downlink, up to 375 Kbps uplink	3GPP Up to 150 Mbps downlink/ Up to 50 Mbps uplink (Category 4)	
Diversity/MIMO	N/A	Rx Diversity and MIMO DL 2x2	
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS		
Power Requirements			
Voltage	USB Models: USB powered - 5V RS-232 Models: 7 - 32VDC	USB powered - 5V	
Connectors			
RF Antenna	External 50 ohm SMA (female connector)		
SIM	Mini SIM (2FF); 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			
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)		
Weight	0.65 lbs (0.295 Kg)		
Chassis Type	Aluminum		
Environmental			
Operating Temperature <sup>†</sup>	-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) IC (Canada)	RED (EU Economic Area)
Safety	UL60950-1 (US)	UL 60950-1 (US) cUL 60950-1 (Canada)	IEC60950-1 (EU Economic Area)
Network	PTCRB, AT&T, Verizon	PTCRB, AT&T, Verizon	N/A
Quality	MIL-STD-810G: 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.

<sup>†</sup> 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.