M100 ^{485} Series

maestro))
empowering wireless

Compact & intelligent industrial modem

The M100 ^{485} is the perfect solution for M2M applications facing tough environmental conditions and extended lifetime requirements. This compact and intelligent modem running Open AT ® Application Framework supports specific protocols and accessories specifically developed by Maestro to ease integration with industrial equipment such as electricity meters, programmable logic controllers, lifts and alarm systems. The M100 ^{485} is fully type approved in CDMA or 3G and ready for global deployment.

M100 ^{485} Series

Common features

✓ Half-duplex RS-485
✓ Modbus RTU master
✓ Modbus RTU to TCP gateway
✓ USB 2.0
✓ Data-logging with export to FTP

M100 CDMA ^{485}

Verizon Wireless CDMA2000 1X:
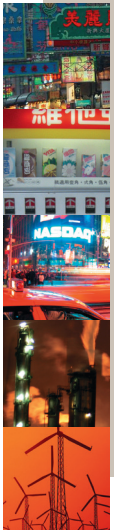✓ Digital input x 2
✓ gpsOne

M100 3G ^{485}

Dual or tri-band HSDPA:
✓ Digital input / output x 2
✓ gpsOneXTRA^{TM}

Easy Configuration
The Maestro Smart Pack II is pre-loaded in all M100 modems to ease device setup and network registration. This application includes much-needed features for system integrators such as auto baud-rate detection, auto-TCP/UDP connection, self-healing in case of network failure, industry-specific protocol and many more.

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FEATURES	M100 CDMA 485	M100 3G 485
CELLULAR TECHNOLOGY		
GSM / GPRS / EDGE		Quadband / class 10 / class 12
CDMA2000 1X	✓	
W-CDMA / HSDPA		Up to 3.6Mbps downlink
SMS	✓	✓
Internet services	TCP / UDP / FTP / HTTP / SMTP / POP3 / SNMP / SSL	
LOCATION TECHNOLOGY		
GPS (NMEA port and command)	Standalone, gpsOne™	Standalone, gpsOneXTRA™, A-GPS
GPS Specifications	gpsOne™	A-GPS
Cold start sensitivity / TTFF	-145 dBm / 39 s	-153 dBm / < 5 s
Hot start sensitivity / TTFF	-158 dBm / 9 s	-153 dBm / < 3 s
Tracking sensitivity	-160 dBm	-155 dBm
Accuracy in open sky	< 3 m	< 2 m
FUNCTIONAL FEATURES		
Modbus RTU to TCP gateway	✓	
Modbus register store and forward	Data-logging feature with CSV export to FTP	
Sierra Wireless Open AT ® Application Framework	✓	
Maestro Wireless Solutions Smart Pack II	Auto baud-rate detection, auto-TCP/UDP, self-healing protocol, DynDNS, etc.	
Download Over The Air	✓	
Autorestore - timer reset	✓	
OTHER FEATURES		
Operating status LED	✓	
Casing	Aluminium alloy	
DIN rail mountable	✓	
INTERFACES		
SIM		1.8 / 3.0 V
RS-485 half-duplex on 3-pin COMBICON 5 mm	✓	
ESD protection - contact	4 kV	
ESD protection air discharge	8 kV	
USB 2.0 on mini-B female connector (slave only)	✓	
Micro-Fit™ 4-pin connector	Power supply (on 2 pins)	
	2 x digital input (on 2 pins)	2 x digital input / output (on 2 pins)
SMA antenna connector (50 Ω)	1 x cellular and 1 x GPS (passive and active)	1 x cellular and 1 x GPS (passive and active)
DIMENSIONS		
Size without connectors	62.8 x 60 x 21.8mm	
Weight	90g	
TEMPERATURE RANGE		
Operating	-30°C ~ +70°C	
POWER SUPPLY		
Input voltage	5VDC ~ 32VDC in	

ORDERING INFORMATION	M100CDMA485-V	M1003GXT48500	M1003GXT48502	M1003GXT48504
Frequency bands (MHz)	800/1900	850/1900	900/2100	800/850/2100
Regulatory (pending)	FCC	FCC / PTCRB	CE / A-Tick	A-Tick
Carrier	Verizon Wireless	AT&T / Rogers Wireless	Telstra	Telstra / NTT Docomo

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