



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.

M100⁴⁸⁵ 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[™]

Easy Configuration

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





Technical specifications

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	1	1			
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		1			
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	1				
Casing	Aluminium alloy				
DIN rail mountable	4				
INTERFACES					
SIM	1.8 / 3.0 V				
RS-485 half-duplex on 3-pin COMBICON 5 mm	1				
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 SMA antenna connector (50 Ω)	Power supply (on 2 pins)				
	2 x digital input	2 x digital input / output			
	(on 2 pins)	(on 2 pins)			
	1 x cellular and 1 x GPS	1 x cellular and 1 x GPS			
DIMENSIONS	(passive and active)	(passive and active)			
	(2.0(0				
Size without connectors	62.8 x 60 x 21.8mm 90g				
Weight TEMPERATURE RANGE	<u> </u>				
	-30°C ~ +70°C				
Operating POWER SUPPLY	-30°C ~ +/0°C				
	EVDC - 220/00 i=				
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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Maestro Wireless Solutions Limited 9th Floor, Wing Cheong Factory Building 121 King Lam Street, Cheung Sha Wan Kowloon, Hong Kong

Tel.: +852 3955 0222 Fax: +852 3568 4833 maestro-wireless.com contact@maestro-wireless.com