Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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.

M100 485 Series

maestro empowering wireless

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	✓	✓
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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