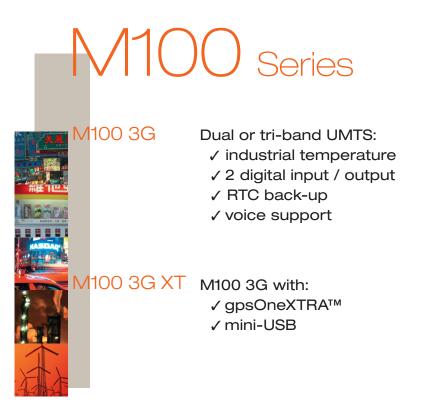# M100
Series

maestro)))

empowering wireless

The smallest 3G industrial modem

The M100 3G of the M100 series is the perfect solution for demanding M2M applications. Ultra compact and fully-featured, the M100 3G can be integrated easily into any industrial machine from electricity meters to intrusion alarms or vending machines. M100 3G modems are fully type approved, making them immediately usable worldwide. Boasting the reliability the M100 Series is known for, the M100 3G modems are the perfect devices to use in any of your projects facing tough conditions or extended lifetime requirements.

M100 Series

M100 3G

Dual or tri-band UMTS:
- ✓ industrial temperature
- ✓ 2 digital input / output
- ✓ RTC back-up
- ✓ voice support

M100 3G XT

M100 3G with:
- ✓ gpsOneXTRA™
- ✓ mini-USB

Easy Configuration

The Maestro Smart Pack II is loaded in all M100 Series 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 protocol in case of network failure and many more.

FEATURES	M100 3G	M100 3G XT
CELLULAR TECHNOLOGY		
GSM / GPRS	Quadband / class 10	
W-CDMA / HSDPA	Up to 3.6 Mbps downlink	
Voice / Data/ Fax / SMS	✓	
Internet services	TCP / UDP / FTP / HTTP / SMTP / POP3 / SNMP / SSL	
LOCATION TECHNOLOGY		
GPS (NMEA port and command)		Standalone, gpsOneXTRA™, A-GPS
GPS Specifications		Standalone / A-GPS
Cold start sensitivity (in dBm) / TTFF (in seconds)	-	-145 / < 45 · -153 / < 5
Hot start sensitivity (in dBm) / TTFF (in seconds)		-153 / < 3 · -153 / < 3
Tracking sensitivity (in dBm)		-155 · -155
Accuracy in open sky (in meters)		< 10 · < 2
FUNCTIONAL FEATURES		
AT command set	> 300	
Sierra Wireless Open AT™	✓	
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	✓	
VOICE, DATA AND SMS FEATURES		
Circuit Switched Data (CSD) service	Asynchronous, transparent and non-transparent up to 14,400 bit/s	
Automatic fax group 3 (Class 1 and Class 2)	✓	
MNP2, V.42bis	✓	
Text and PDU SMS	✓	
Point to point SMS (MT/MO)	✓	
UCS2 Character Set Management	✓	
OTHER FEATURES		
Operating status LED	✓	
Casing	Aluminium alloy	
DIN rail mountable	✓	
INTERFACES		
SIM drawer	1.8 / 3.0 V	
RS-232C on 15-pin sub-D connector	✓	
USB 2.0 on mini-B female connector (slave only)	-	✓
Micro-Fit™ 4-pin connector	Power supply (on 2 pins)	
	2 x digital input / output (on 2 pins)	
SMA antenna connector (50 Ω)	Cellular	Cellular and GPS (passive and active)
DIMENSIONS		
Size without connectors (in mm / inch)	62.8 x 60 x 21.8 / 2.47 x 2.36 x 0.86	
Weight (in g / oz)	90 / 3.18	
TEMPERATURE RANGE		
Operating (in °C / °F)	-30 ~ +75 / -22 ~ +167	
POWER SUPPLY		
Input voltage	5 to 32 V DC	

ORDERING INFORMATION	M1003G00	M1003G02	M1003G04	M1003GXT00	M1003GXT02	M1003GXT04
Frequency bands (MHz)	850/1900	900/2100	800/850/2100	850/1900	900/2100	800/850/2100
REGULATORY (on going)						
FCC /PTCRB	✓			✓		
CE / R&TTE		✓			✓	
A-Tick		✓	✓		✓	✓
CARRIER (on going)						
AT&T / Roger	✓			✓		
Telstra			✓			✓
Optus (Australia)		✓			✓	
NTT DoCoMo			✓			✓