

ACCELERATE TIME-TO-MARKET WITH ONBOARD LOCATION



The Enfora Spider MT family is a certified quad-band integrated platform that provides complete GSM/GPRS functionality for mobile tracking applications. These small, economical devices also include integrated GPS capabilities. To address a variety of applications, onboard GPS data can be transmitted to centralized operations centers, Web pages, localized computers or mobile data terminals.

To accelerate deployment, use Enfora's Services Gateway to quickly build links from your asset-tracking devices to your existing enterprise applications and services. The Services Gateway provides a complete view of your devices, enabling proactive asset management. It also supports popular enterprise software such as MS SQL Server, MySQL and Oracle.

Key Features

- Enable virtually any telematics application with included software suite
- Flexible customization through built-in programmable rules engine, a network router & control automation capabilities
- Wireless data and voice port available for user email and voice communication
- Auto-registration on power up
- Internal battery back-up on the MT- μ L allows for continued operation when main input power is removed
- Utilize Enfora's Services Gateway to tie quickly to existing applications or services



www.enfora.com

SPIDER[®] MT
GSM/GPRS/GPS
QUAD-BAND MOBILE PLATFORMS

	MT-μL QUAD-BAND	MT-Gμ QUAD-BAND																																				
MODEL NUMBER	GSM2238	GSM2338																																				
CHARACTERISTICS Dimensions (L x W x H) Housing	63.5 x 63.5 x 24.4 mm Seamless aluminum extrusion	64.8 x 61 x 25.6 mm Rugged plastic enclosure																																				
RADIO PERFORMANCE Frequency (MHz) Transmit power	850/900/1800/1900 Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)																																					
PACKET DATA Mode Protocol Coding schemes Packet channel	Class B, Multislot 8 GSM/GPRS Rel 97 AMR Rel 99 CS1-CS4 PBCCH/PCCCH	Class B, Multislot 10 GSM/GPRS Rel 97 AMR Rel 99 CS1-CS4 PBCCH/PCCCH																																				
GSM FUNCTIONALITY Voice CS data GSM SMS	AMR, EFR, FR & HR Asynchronous; Transparent and Non-Transparent up to 14.4 kb Text, PDU, MO/MT, Cell Broadcast																																					
GPS FUNCTIONALITY Connector Antenna GPS Protocols Buffered GPS message feature	FAKRA 3.3 V active NMEA, TAIP, Binary Yes																																					
OVER-THE-AIR COMMANDS	I/O control, GPS TX internal, binary reporting, timed reporting, alarm reporting, maximum speed exceeded, status change reports, GPS content, event reporting, distance reporting, geo fencing and virtual odometer																																					
SIM CARD/INTERFACE/I/O SIM Access Audio GSM Antenna I/O Connector Serial Data I/O Ignition Sense	External 2.5 mm headset FAKRA 8-pin Molex 2 GPIOs: Input 0-40V, Output 0-3V 1 Output 0-40V Yes Yes																																					
INTERFACE Host Protocols Internal Protocols API Control/Status	AT commands, UDP API, CMUX, PPP PPP, UDP API, TCP API, UDP PAD, TCP PAD AT commands, UDP API, TCP API, AT commands over SMS																																					
ENVIRONMENT Operating Storage Humidity Vibration	-30°C to 85°C -40°C to 85°C Up to 95% non-condensing In accordance with SAE J1211																																					
POWER DC voltage	7 - 40 V Rechargeable Lithium-Ion battery (1-hr use)																																					
GSM operating power (typical) @ 12 volts	<table border="1"> <thead> <tr> <th>Band</th> <th>Mode</th> <th>Avg (mA)</th> <th>Peak A</th> </tr> </thead> <tbody> <tr> <td rowspan="2">GSM 850/900</td> <td>1TX/1RX</td> <td>230</td> <td>2.1</td> </tr> <tr> <td>Idle</td> <td>< 45</td> <td></td> </tr> <tr> <td rowspan="2">GSM1800/1900</td> <td>1TX/1RX</td> <td>175</td> <td>1.5</td> </tr> <tr> <td>Idle</td> <td>< 45</td> <td></td> </tr> </tbody> </table>	Band	Mode	Avg (mA)	Peak A	GSM 850/900	1TX/1RX	230	2.1	Idle	< 45		GSM1800/1900	1TX/1RX	175	1.5	Idle	< 45		<table border="1"> <thead> <tr> <th>Band</th> <th>Mode</th> <th>Avg (mA)</th> <th>Peak (A)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">GSM 850/900</td> <td>1TX/1RX</td> <td>250</td> <td>1.6</td> </tr> <tr> <td>Idle</td> <td>< 40</td> <td></td> </tr> <tr> <td rowspan="2">GSM1800/1900</td> <td>1TX/1RX</td> <td>215</td> <td>1.3</td> </tr> <tr> <td>Idle</td> <td>< 40</td> <td></td> </tr> </tbody> </table>	Band	Mode	Avg (mA)	Peak (A)	GSM 850/900	1TX/1RX	250	1.6	Idle	< 40		GSM1800/1900	1TX/1RX	215	1.3	Idle	< 40	
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CERTIFICATIONS FCC GCF PTCRB CE Mark RoHS Compliant Emark Industry Canada	Parts 15, 22 & 24 Version 3.27.0 Version 3.12.0 Yes Yes Yes Yes																																					
PART NUMBERS	GSM2238-00 (with battery) GSM2238-01 (without battery)	GSM2338-00 (with battery) GSM2338-01 (without battery)																																				