ENFORA SPIDER® MT

GSM/GPRS/GPS

QUAD-BAND MOBILE PLATFORMS

ACCELERATE TIME-TO-MARKET WITH ONBOARD LOCATION

The Enfora Spider MT family is a fully 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 or Web pages, or localized computers or mobile data terminals.

To accelerate deployment, Enfora's Enhanced Wireless Intelligent Device Environment (eWiDE) is an embedded software environment that enables the development of essential capabilities—mobile connectivity, location awareness and device intelligence. The environment also simplifies the operation and remote management of your assets and, ultimately, ensures greater visibility into essential data that supports decision-making.

QUICK OVERVIEW

- Enable virtually any telematics application with included software suite
- Flexible customization through built-in TCP/IP and UDP capability
- Wireless data and voice port available for user email and voice communication
- Auto-registration on power up
- Internal battery back-up on the MT-µL allows for continued operation when main input power is removed

eWiDE

· Optimized data pipe

· Network router

· Control and automation

· Rules engine

· Application OS

Today, more and more companies are turning to Enfora for wireless M2M solutions. By relying on our technology and expertise, they have more time for their core business. When you want to accelerate time-to-market with onboard location, Enfora is ready to help you **enable information anywhere.**

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enfora®
Enable Information Anywhere

	MT-G QUAD-BAND	MT-GL QUAD-BAND	MT-µL QUAD-BAND
MODEL NUMBER	**GSM2208**	**GSM2218**	**GSM2238**
CHARACTERISTICS			
Dimensions (L x W x H)	101.6 x 127.0 x 40.6 mm	108.0 x 76.2 x 31.8 mm	63.5 x 63.5 x 24.4 mm
Housing	Seamless aluminum extrusion	Seamless aluminum extrusion	Seamless aluminum extrusion
RADIO PERFORMANCE			
Frequency (MHz)	850/900/1800/1900		
Transmit power	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)		
PACKET DATA			
Mode	Class B, Multi-slot 8		
Protocol	GPRS Release 97 & 99, SMG 31		
Coding schemes	CS1-CS4		
Packet channel	PBCCH/PCCCH		
GSM FUNCTIONALITY			
Voice	AMR, EFR, RF & HR		
CS data	Asynchronous; Transparent and Non-Transparent up to 14.4 kb		
GSM SMS	Text, PDU, MO/MT, Cell Broadcast		
GPS FUNCTIONALITY			
Connector	SMA female		Fakra
Antenna	3.3. V active		3.3 V Active
GPS Protocols	NMEA, TAIP, Binary		NMEA, TAIP, Binary
Buffered GPS message feature	Yes		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	External	External	External
Audio	2.5 mm headset and via I/O connector	via I/O connector	2.5 mm headset
GSM Antenna	TNC	TNC	FAKRA
I/O Connector	5 user-defined digital I/O 2 A/D input/port 1 audio I/O	12-pin WAGO 2 user inputs, 1 output	8-pin Molex 2 user inputs, 1 output
Serial Data I/O	Yes	Yes	Yes
Ignition Sense	Yes	Yes	Yes
SOFTWARE			
Host Protocols	AT commands, UDP API, CMUX, PPP		
Internal Protocols	PPP, UDP API, TCP API, UDP PAD, TCP PAD		
API Control/Status	AT commnads, UDP API, TCP API, AT commands over SMS		
ENVIRONMENT			
Operating	–30ºC to 70ºC		
Storage	–40ºC to 85ºC		
Humidity	Up to 95% non-condensing		
Vibration	In accordance with SAE J1211		
POWER			
DC voltage	5 - 30 V	9 - 30 V	7 - 40VDC Rechargeable Li-Ion battery (1-hr use)
GSM operating power (typical) @ 12 volts			

Band	Mode	Avg (mA)	Peak (A@dBm)
GSM 850 &	1TX/1RX	230	2.1
EGSM 900	Idle	< 45	
DCS 1800 &	1TX/1RX	175	1.5
PCS 1900	Idle	< 45	

CERTIFICATIONS			
FCC	Parts 15, 22 & 24		Parts 2, 15, 22 & 24
GCF	Version 3.21.1		Version 3.21.1
PTCRB	Version 3.7.1		Version 3.7.1
Industry Canada (CSA)	Yes		Yes
CE Mark	Yes		Yes
RoHS Compliant	Yes		Yes
Emark	Yes		Yes
PART NUMBERS	GSM-2208-20	GSM2218-01	GSM2238

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