EXTEND THE LIFE OF YOUR
ASSET MONITORING SOLUTION

SPIDER® AT
GSM/GPRS/GPS
QUAD–BAND ASSET TAG

An extension to the Enfora Spider® family of integrated asset management solutions, the Spider AT is a certified quad-band integrated platform that provides GSM/GPRS/GPS functionality for mobile asset monitoring. Based on Enfora's innovative Enabler III Low Power Platform, the built-in programmable software environment enables essential capabilities – mobile connectivity, location awareness and device intelligence – leveraging unique control and automation features that extend device longevity through the management of power utilization and critical communications parameters.

Designed for the intelligent monitoring of non-powered mobile and fixed assets the Spider AT is easily installed and managed.
The Spider AT is provisioned through the Enfora Services Gateway and can be configured to optimize motion detection, location monitoring, reporting and geofence settings, all of which will help determine battery life and service availability.

The Services Gateway provides a complete view of your devices, enabling proactive asset monitoring based on your company's specific requirements. It also supports popular enterprise software such as MS SQL Server, MySQL and Oracle so you can seamlessly connect to your critical business applications

Key Features

- Up to three years or more of operation[1]

- Fully Integrated - no need for external antenna or power source

- Wireless Connection Reliability

- Superior GPS Sensitivity & Geofencing

- Simplified Over the Air Configuration & Provisioning[2]

[1] Based on customer configuration and reporting frequency
[2] Leveraging Enfora Gateway and Provisioning Software

enfora®
Enable Information Anywhere

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SPIDER AT
QUAD-BAND ASSET TAG

<u>MODEL NUMBER</u>	**GSM5108**

CHARACTERISTICS
Dimensions	146.7 x 63 x 20.4 mm
Weight	< 168 g

RADIO PERFORMANCE
Frequency (MHz)	850/900/1800/1900
Sensitivity	–108 dBm (typical)
Transmit power	Class 4 (2W@850/900 MHz)
	Class 1 (1W@1800/1900 MHz)

GPRS PACKET DATA
Mode	Class B, Multislot Class 10
Protocol	GSM/GPRS Rel 97, AMR Rel 99
Coding schemes	CS1-CS4
Packet channel	PBCCH/PCCCH

GSM FUNCTIONALITY
GSM SMS	Text, PDU, MO/MT, Cell Broadcast

SIM ACCESS
	1.8/3V SIM

INTERFACE
Internal protocols	UDP API, TCP API
API control/status	AT commands, UDP API, TCP API, AT commands over SMS
Physical interface	Internal USB, Luminated External Power Switch, Flexible Mounting

GPS FUNCTIONALITY
Channels	12
Sensitivity	
Monitoring	-159 dBm (typical)
Reacquisition	-158 dBm (typical)
Cold Start	-145 dBm (typical)
Position accuracy (horiz)	
-130 dBm, Autonomous CEP (50%)	1 M (typical)
-150 dBm, Autonomous CEP (50%)	7 M (typical)
-130 dBm, Autonomous CEP (95%)	3 M (typical)
-150 dBm, Autonomous CEP (95%)	15 M (typical)

ENVIRONMENT
Operating	–30ºC to 85ºC
Compliant	–20ºC to 60ºC
Storage	–40ºC to 85ºC
IP Rating	IP66

POWER
DC voltage	3.3 to 4.5 Vdc
GSM operating power (typical) @ 3.8 Vdc	

	Band	Mode	Avg	Peak (A)
System		Idle	< 5µA	
GPS		Average Acquisition	< 80mA	
		Monitoring	< 20mA	
GSM	GSM 850 & 900	1TX/1RX	285 mA	1.6
	GSM 1800 & 1900	1TX/1RX	240 mA	1.3
		Idle	<2.5 mA DRX 5	

BATTERY
Enfora PN	BAT-0007-0001
Chemistry	Lithium-Thionyl Chloride
Capacity	4200 mAh @ RT

CERTIFICATIONS
FCC	Parts 15, 22 & 24
GCF	Version 3.30.1
PTCRB	Version 4.0.0
CE Mark	Yes
Industry Canada	Yes
RoHS Compliant	Yes

PART NUMBERS
	GSM5108

Specifications subject to change.
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