

EXTEND THE LIFE OF YOUR ASSET MONITORING SOLUTION



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 operation¹
- Fully Integrated - no need for external antenna or power source
- Wireless Connection Reliability
- Superior GPS Sensitivity & Geofencing
- Simplified Over the Air Configuration & Provisioning²

¹ Based on customer configuration and reporting frequency

² Leveraging Enfora Gateway and Provisioning Software



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

SPIDER AT
QUAD-BAND ASSET TAG

MODEL NUMBER	GSM5108																														
CHARACTERISTICS Dimensions Weight	146.7 x 63 x 20.4 mm < 168 g																														
RADIO PERFORMANCE Frequency (MHz) Sensitivity Transmit power	850/900/1800/1900 -108 dBm (typical) Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)																														
GPRS PACKET DATA Mode Protocol Coding schemes Packet channel	Class B, Multislot Class 10 GSM/GPRS Rel 97, AMR Rel 99 CS1-CS4 PBCCH/PCCCH																														
GSM FUNCTIONALITY GSM SMS	Text, PDU, MO/MT, Cell Broadcast																														
SIM ACCESS	1.8/3V SIM																														
INTERFACE Internal protocols API control/status Physical interface	UDP API, TCP API AT commands, UDP API, TCP API, AT commands over SMS Internal USB, Luminated External Power Switch, Flexible Mounting																														
GPS FUNCTIONALITY Channels Sensitivity Monitoring Reacquisition Cold Start Position accuracy (horiz) -130 dBm, Autonomous CEP (50%) -150 dBm, Autonomous CEP (50%) -130 dBm, Autonomous CEP (95%) -150 dBm, Autonomous CEP (95%)	12 -159 dBm (typical) -158 dBm (typical) -145 dBm (typical) 1 M (typical) 7 M (typical) 3 M (typical) 15 M (typical)																														
ENVIRONMENT Operating Compliant Storage IP Rating	-30°C to 85°C -20°C to 60°C -40°C to 85°C IP66																														
POWER DC voltage GSM operating power (typical) @ 3.8 Vdc	3.3 to 4.5 Vdc <table border="1"> <thead> <tr> <th></th> <th>Band</th> <th>Mode</th> <th>Avg</th> <th>Peak (A)</th> </tr> </thead> <tbody> <tr> <td>System</td> <td></td> <td>Idle</td> <td>< 5µA</td> <td></td> </tr> <tr> <td rowspan="2">GPS</td> <td rowspan="2"></td> <td>Average Acquisition</td> <td>< 80mA</td> <td></td> </tr> <tr> <td>Monitoring</td> <td>< 20mA</td> <td></td> </tr> <tr> <td rowspan="3">GSM</td> <td rowspan="2">GSM 850 & 900</td> <td>1TX/1RX</td> <td>285 mA</td> <td>1.6</td> </tr> <tr> <td>1TX/1RX</td> <td>240 mA</td> <td>1.3</td> </tr> <tr> <td></td> <td>Idle</td> <td><2.5 mA DRX 5</td> <td></td> </tr> </tbody> </table>		Band	Mode	Avg	Peak (A)	System		Idle	< 5µA		GPS		Average Acquisition	< 80mA		Monitoring	< 20mA		GSM	GSM 850 & 900	1TX/1RX	285 mA	1.6	1TX/1RX	240 mA	1.3		Idle	<2.5 mA DRX 5	
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BATTERY Enfora PN Chemistry Capacity	BAT-0007-0001 Lithium-Thionyl Chloride 4200 mAh @ RT																														
CERTIFICATIONS FCC GCF PTCRB CE Mark Industry Canada RoHS Compliant	Parts 15, 22 & 24 Version 3.30.1 Version 4.0.0 Yes Yes Yes																														
PART NUMBERS	GSM5108																														