

# ADD PLUG-AND-GO WIRELESS TO REMOTE MONITORING & RURAL INTERNET APPLICATIONS



The Enfora Spider SA family is a certified quad-band integrated platform that enables simple integration through a serial or USB connection. Available with GSM/GPRS and EDGE capabilities, the SA family also lets you address multiple markets and geographies with a single design. The included modem-management software supports Windows® XP, Professional 2000 and 98SE on select models.

## Key Features

- Compact, economical standalone IP platform
- Full GSM/GPRS/EDGE voice and data features
- Simple serial or USB connectivity
- Auto-registration on start-up
- Modem-management software supports Windows® XP, Professional 2000 and 98SE on select models

	<b>SA-G+ QUAD-BAND</b>	<b>SA-EL QUAD-BAND</b>																																							
<b>MODEL NUMBERS</b>	<b>GSM1308</b>	<b>EDG1228</b>																																							
<b>CHARACTERISTICS</b> Dimensions (L x W x H) Weight Housing Antenna	63.5 x 63.5 x 23.9 mm 80 g Plastic SMA connector	63.5 x 63.5 x 23.9 mm 128.5 g Seamless aluminum extrusion SMA connector																																							
<b>RADIO PERFORMANCE</b> Frequency (MHz) Sensitivity Transmit power	850/900/1800/1900 -106 dBm (typical) Class 4 (2W@850/900 MHz); Class 1 (1W@1800/1900 MHz)																																								
<b>PACKET DATA</b> Mode Protocol Coding schemes Packet channel	Class B, Multislot 10 GSM/GPRS Release 97, AMR Release 99 CS1-CS4 PBCCH/PCCCH	Class B, Multislot 10 GSM/GPRS/EDGE/AMR Release 99 CS1-CS4; MCS1-MCS9 PBCCH/PCCCH																																							
<b>GSM FUNCTIONALITY</b> Voice CS data GSM SMS	FR, EFR, HR & AMR Asynchronous; Transparent and Non-Transparent up to 14.4 kb Text, PDU, MO/MT, Cell Broadcast																																								
<b>INTERFACE</b> Host Protocols Internal Protocols API Control/Status  Physical interface Peripheral interface	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  RS-232C 8-pin I/O: Mic in, headset out, audio return, ground, input power, 2 user-defined I/O, and 1 dedicated output	AT commands, CMUX, PPP PPP AT Commands  USB 2.5 mm headset jack																																							
<b>SIM ACCESS</b>	1.8/3V with locking mechanism																																								
<b>ENVIRONMENT</b> Operating Compliant Storage Humidity	-30°C to +70°C -20°C to +60°C -40°C to +85°C Up to 95% non-condensing																																								
<b>POWER</b> DC voltage GSM operating power (typical)	6-40 V SA-G+ @ 9 V <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>1 TX/1RX</td> <td>200</td> <td>1.30</td> </tr> <tr> <td>Idle</td> <td>50 DRX5</td> <td></td> </tr> <tr> <td rowspan="2">GSM 1800/1900</td> <td>1TX/1RX</td> <td>160</td> <td>0.92</td> </tr> <tr> <td>Sleep</td> <td>20</td> <td></td> </tr> </tbody> </table>	Band	Mode	Avg (mA)	Peak (A)	GSM 850/900	1 TX/1RX	200	1.30	Idle	50 DRX5		GSM 1800/1900	1TX/1RX	160	0.92	Sleep	20		5 V (powered by USB) SA-EL @ 5 V <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>1 TX/1RX</td> <td>340</td> <td>0.9</td> </tr> <tr> <td>Idle</td> <td>50</td> <td></td> </tr> <tr> <td rowspan="2">GSM 1800/1900</td> <td>1TX/1RX</td> <td>300</td> <td>0.8</td> </tr> <tr> <td>Idle</td> <td>40</td> <td></td> </tr> <tr> <td>Sleep</td> <td>20</td> <td></td> </tr> </tbody> </table>	Band	Mode	Avg (mA)	Peak (A)	GSM 850/900	1 TX/1RX	340	0.9	Idle	50		GSM 1800/1900	1TX/1RX	300	0.8	Idle	40		Sleep	20	
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<b>CERTIFICATIONS</b> FCC GCF PTCRB Industry Canada CE Mark RoHS Compliant	Parts 15, 22 & 24 Version 3.27.0 Version 3.12.0 Yes Yes Yes	Parts 15, 22 & 24 Version 3.24.0 Version 3.10.1 Yes Yes Yes																																							
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