

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.

SPIDER® SA
QUAD-BAND INTEGRATED PLATFORMS
GSM/GPRS/EDGE

Key Features

- Compact, economical standalone IP based 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

	SA-G+ QUAD-BAND	SA-EL QUAD-BAND																																							
MODEL NUMBERS	GSM1308	EDG1228																																							
CHARACTERISTICS 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																																							
RADIO PERFORMANCE Frequency (MHz) Sensitivity Transmit power	850/900/1800/1900 -106 dBm (typical) Class 4 (2W@850/900 MHz); Class 1 (1W@1800/1900 MHz)																																								
PACKET DATA 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																																							
GSM FUNCTIONALITY 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																																								
INTERFACE 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																																							
SIM ACCESS	1.8/3V with locking mechanism																																								
ENVIRONMENT Operating Compliant Storage Humidity	-30°C to +70°C -20°C to +60°C -40°C to +85°C Up to 95% non-condensing																																								
POWER 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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CERTIFICATIONS 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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