

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 dedicate 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><thead><tr><th>Band</th><th>Mode</th><th>Avg (mA)</th><th>Peak (A)</th></tr></thead><tbody><tr><td>GSM 850/900</td><td>1 TX/1RX</td><td>200</td><td>1.30</td></tr><tr><td>GSM 1800/1900</td><td>1TX/1RX</td><td>160</td><td>0.92</td></tr><tr><td></td><td>Idle</td><td>50 DRX5</td><td></td></tr><tr><td></td><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	GSM 1800/1900	1TX/1RX	160	0.92		Idle	50 DRX5			Sleep	20		5 V (powered by USB) SA-EL @ 5 V <table><thead><tr><th>Band</th><th>Mode</th><th>Avg (mA)</th><th>Peak (A)</th></tr></thead><tbody><tr><td>GSM 850/900</td><td>1 TX/1RX</td><td>340</td><td>0.9</td></tr><tr><td></td><td>Idle</td><td>50</td><td></td></tr><tr><td>GSM 1800/1900</td><td>1TX/1RX</td><td>300</td><td>0.8</td></tr><tr><td></td><td>Idle</td><td>40</td><td></td></tr><tr><td></td><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	
Band	Mode	Avg (mA)	Peak (A)																																											
GSM 850/900	1 TX/1RX	200	1.30																																											
GSM 1800/1900	1TX/1RX	160	0.92																																											
	Idle	50 DRX5																																												
	Sleep	20																																												
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																																												
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																																												
PART NUMBERS	GSM1308-50	EDG1228																																												