

Sutron GSM/GPRS/HSPA Modem



SPECIFICATIONS

Specifications subject to change without notice

MECHANICAL			
RS232 Connector	DB9 F (DTE) & 2x5 Shrouded, 0.1 inch spacing		
Antenna Connector	SMA Female		
Power Connector	pin 9 of RS232 or 2 pin molex		
Enclosure	optional		
ELECTRICAL			
Input Voltage	8v-20VDC @0.65 amp max		
Power Consumption	Avg During Tx - 40 mA, Idle (Connected to Network) - 3mA		
Status LED	Green - Network status		
GPRS/HSPA TRANSCEIVER			
Frequency	GSM Quad Band 850, 900, 1800, 1900 MHz UMTS/HSPA Penta Band 850, 900, 1700, 1900, 2100 MHz		
Output power	Class 4 (2w, 33 dBm) @ 850/900 Class 1 (1w, 30 dBm) @ GSM 1800/1900 Class 3 (0.25w, 24 dBm) @ UMTS Class E2 (0.5w, 27 dBm) @ EDGE 850/900 Class E2 (0.4w, 26 dBm) @ EDGE 1800/1900		
Data	HSPA: DL: Up to 21.0 Mbps, UL: Up to 5.76 Mbps WCDMA: DL: Up to 384 kbps, UL: Up to 384 kbps EDGE: DL: Up to 296kbps, UL: Up to 236.8 kbps GPRS: DL: Up to 107 kbps, UL: Up to 85.6 kbps Asynchronous non-transparent CSD up to 9.6 kbps		
SMS	Point to Point (mobile originated & terminated) Concatenated SMS SMS cell broadcast Test and PDU mode		
Max SMS send/ receive	160 characters message		
ENVIRONMENTAL			
Operating Temperature	-40 to +60°C		
DIMENSIONS			
	DEVICE	SHIPPING	
Height	6 in. (15.3 cm.)	14 in. (35.6 cm.)	
Length	3 in. (7.7 cm.)	10 in. (25.4 cm.)	
Width	1 in. (2.6 cm.)	6 in. (15.3 cm.)	
Weight	.55 lbs. (.25 Kg)	2 lbs. (0.9 Kg)	
ORDERING			
GPRS -1-0	GPRS -1 WITH NON-NEMA ENCLOSURE		
ACCESSORIES			
1291-1028	Swivel Antenna with 5dBi gain		
TRAB821/18503P	Dual band cellular/PCS Antenna		
TRAB821/18503P	Cellular - 821-896 MHz		
TRAB821/18503P	PCS - 821-896 MHz		
CAF825	Quad Band Omni Directional Antenna		
6411-1524-1	DB9-Male to 2x5 Header adapter cable		
ANTENNA CABLES			
LL400-15-S-T	15 ft, SMA-TNC	LL400-20-S-T	20 feet, SMA-TNC
LL400-15-N-T	15 feet, N-TNC	LL400-20-N-T	20 feet, N-TNC



Overview

Sutron's GPRS-1 is a GSM / GPRS / HSPA data transceiver that provides two-way communication with remote stations can be integrated into several Sutron loggers (i.e., 8310 & Xpert series). It also supports a digital voice interface & 2 ADC (Analog to Digital Converter) channels plus 1 DAC (Digital to Analog Converter). The compact GPRS-1 fits within almost any configuration. Sutron offers a variety of antennas & cabling accessories for the GPRS-1.

Features

Wireless cellular technology with data access in most areas where a cell phone works Service Plans: USA service provided by T-Mobile. International service offered in 130 countries. Rates are based on modem location & data amount sent. Sutron plans with low cost charges per byte.

- ▶ Compact size fits in tight spaces
- ▶ Small antennas that are easy to conceal
- ▶ Variety of antenna/cabling
- ▶ 2 way communication (when covered)
- ▶ Data delivered via SMS/GPRS/HSPA
- ▶ Web hosting from Sutron.
- ▶ Multiple power/data inputs by 2-pin power connector or single RS-232 port
- ▶ Status LED to indicate idle, standby & network connectivity.
- ▶ SIM holder
- ▶ Fixed dialing number
- ▶ Embedded TCP/IP stack (W/TCP, IP, UDP, SMTP, FTP)
- ▶ Digital Voice Interface
- ▶ 2 Analog to digital converters
- ▶ 1 Digital to Analog converter
- ▶ Power monitor output
- ▶ Fax (Group 3, 1)