



SP4600 Series

Feature Rich GPS Tracking Device

With advanced features and functionality, the SP4600 Series is well suited for highly demanding applications such as fleet tracking and field dispatch. This dependable quad-band GSM/GPRS tracking device is available in 2G and 3G versions to match the needs of the enterprise. It is also well suited for mainstream uses such as insurance telematics and vehicle location/recovery. SP4600 Series units are powered by an over-the-air device management and maintenance system. (Programming, Updates, and Logistics System). FOTA (Firmware update over the air), GSM jamming detection and 28 hardware based geofences makes this the perfect choice when you need maximum flexibility and capability.

FEATURES

- Quad Band GSM Modem
- 2G/3G Modem Versions
- FOTA (Firmware Update OTA)
- Flexible Programming Rules
- Garmin® FMI Enable
- 1-Wire® Interface
- HDOP/VDOP for Precise Location
- Echo Driving
- GSM Jamming Detection
- Multiple Data Upload Modes
- Intelligent Power Management
- Multiple Inputs & Outputs
- Configurable Inputs & Outputs
- Conditional Based Profiles
- Internal Backup Battery
- 28 Day/Time/Speed Based Geofences
- Internal 2-Axis Accelerometer

SP4600 Series Specifications



GENERAL

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	12 and 24 volt vehicle systems

GPS

Location Technology	Ublox GPS (with SBAS) Telit SL 869 Glonass (optional) GPS L1C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
Tracking Sensitivity	-162dBm
Assist GPS	Supported
Antenna	Internal Ceramic (external optional)

CELLULAR

Data Support	SMS, TCP, UDP
GSM/GPRS	Quad Band 850/900/1800/1900 MHz
3G Dual Band US	850/1900 MHz (optional)
3G Dual Band EU	900/2100 MHz (optional)
GSM/GPRS O/P Power	Class 4 (2W) For 850 / 900 Bands Class 1 (1W) For 1800 / 1900 Bands
GSM/GPRS Fallback	GPRS Class 10
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (optional)
SIM Card	1.8/3.3 V

INPUT/OUTPUT

Digital Input	2
Ignition Sense	1
Programmable Input	One configurable input to negative trigger digital input or analog input
Analog Input	1
Digital Output	2, open drain, 300mA drive current max
Latched Digital O/P	One digital output with internal latch circuit, open drain, 150mA drive max
Two-Way Audio	2 differential outputs / 1 audio input
Serial Port	1 RS232 port for external devices (or GARMIN FMI protocol support)
Wire Solution	1 wire interface (driver ID)
Status LEDs	GPS, Cellular, Power

ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
2D Accelerometer	Built-in
Vibration Sensor	Built-in

ELECTRICAL

Operating Voltage	8-32V DC operational for 12V & 24V vehicle support per SAE J1455
Power Consumption	3mA 12V (sleep) 70mA 12V (power save) 100mA 12V (active tracking)
Backup Battery	LI-PO 250mAh (optional) Recharging range: 0 to +45°C

PHYSICALS

Dimension	80 x 52 x 26 mm
Weight	80g (w/o battery)

ENVIRONMENTAL

Operating Temperature	-40 ~ +80°C (w/o backup battery) -10 ~ +50°C (w/ backup battery)
Humidity	95%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC – Part 15B
RoHS	Compliant (optional)

CONNECTORS, SIM CARD ACCESS

Connector Type	16 Pin Molex
Mini USB	1 (configuration/debug)
Power Switch	Built-in
GPS Antenna	Internal or External SMA
GSM Antenna	Internal
SIM Card	Internal

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