

Sure-Track ST2700

The Complete GPS Fleet Management Solution



The Sure-Track ST2700 is an extremely sophisticated wired-in fleet management system that has been designed to allow the user to monitor and report on vehicles & machines.

This impressive GPS product allows the user to increase productivity & efficiency of their fleet by receiving minute by minute updates on locations, working/machine hours and driver behaviour.

With numerous different interfaces, digital and analog inputs and outputs, this system can be configured to allow you to manage data to and from the unit for many different applications. This includes temperature readings, immobilisation, crash detection and driver identification.

Reporting & Alerts

Below we have detailed some of the main reports and alerts that are available for the ST2700. We have lots of other available reports and if we don't have one that suits your need then bespoke reports can be created:

- + GPS Journey reports supply a snail trail of journey information including start, stop and locations in between.
- + Drivers score report, minimise poor driving across the fleet
- + Speeding reports
- + Daily Report provides summary details of all journeys and activities.
- + Input & Output Reports provide detailed data on when and where used.
- + Interface Reports and Alerts for temperature or Driver Identification depending on the unit configuration.
- + Impact Detection report shows the level of impact, time and location both before and after the incident.
- + Business/Private Mileage report can be configured to aid employee monthly vehicle administration.
- + Servicing & Maintenance alerts can help assist with schedule servicing and legally required maintenance.
- + All reports and alerts are pre-configured to your exact requirements and can be received by text or email.

Installation & Power

The ST2700 is a wired-in unit with built in cellular and GPS antennas to help aid easy installation. In the event of the asset being disconnected from its mains power the unit will alert you and switch backup battery.

Inputs & Outputs

- + 5 Digital Inputs for ancillary devices - to record when an attachment is operating.
- + 3 Digital Outputs to allow remote access to the asset via the unit i.e. Immobilisation
- + 1-wire interface allows data to be sent from the asset to the platform via the unit i.e. temperature sensors or Dallas key for driver identification
- + 2 Serial Interfaces for NMEA data
- + 2 Analogue Inputs
- + jPOD Truck ECU Interface
- + Garmin FMI compatible interface

Configuration

All configuration and update requests can be carried out over air using SMS and GPRS making it easy to change settings and update firmware.

Features

Sure-Track ST2700

- + Live GPS positions
- + Detailed journey data
- + Driver behaviour analysis
- + Advanced crash detection
- + Speeding alerts
- + Acceleration, braking & idling
- + Unauthorised usage
- + Utilisation reporting
- + Geofence technology
- + Towing & tamper alerts
- + Immobilisation
- + Driver ID
- + Temperature data
- + Integrated camera solutions
- + Full reporting suite
- + Security alerts

SPECIFICATION

Sure-Track ST2700 The Complete GPS Fleet Management Solution

ST2700 Specifications

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	56 channel GPS
Operational Voltage	12 and 24 volt vehicle systems

GPS Specifications

Location Technology	GPS; GLONASS and QZSS capable
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Receiver Type	56 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-148 dBm
Location Accuracy	2.0m CEP
Location Update	Rate up to 10 Hz
Anti-jamming	
AGPS / Location assistance capable	

Cellular Specifications

Data Support	SMS, UDP packet data		
Operating Bands (MHz)	GSM/GPRS	850/900/1800/1900	
	CDMA/1xRTT	850/1900	
	HSPA/UMTS	850/1900	
Transmitter Power	GSM/GPRS	850/900	32.5 dBm
		1800/1900	29.3 dBm
	CDMA/1xRTT	850	24 dBm
		1900	23 dBm
HSPA/UMTS	850/1900	23 dBm	
	HSPA data rates	5.6Mbps upload/7.2 Mbps download	
HSPA Fallback	EDGE/GPRS/GSM quad band		
	EDGE MCS1-MCS9		
	3GPP Release 6		
LTE	700/800/850/1700/1800/1900/2600 MHz (depending on configuration)		
	Downlink up to 5 Mbps (peak burst rate)		
	Uplink up to 5 Mbps (peak burst rate)		
	Fallback to HSPA/CDMA (depending on configuration)		

Comprehensive I/O

Digital Inputs	5 (1 fixed bias low, 4 programmable bias)
Digital Outputs	3 relay driver outputs (200mA)
Serial Interface	2 power TTL ports
Analogue Inputs	2 (1 interval VCC monitor, 1 external A/D input)
1-Wire® Interface	Driver ID, temperature sense
Status LEDs	GPS and cellular

Environmental

Temperature*	-30° to +75° C (connected to primary power) -40° to +85° C (storage) Except Battery*
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada; RoHS Compliant

Physical Specifications

Dimensions	3.684 x 2.002 x 0.775", (93.57 x 52.88 x 19.68mm)
Weight	2.4oz, (68.03g)

Mounting

Tie-wrap, adhesive, or Velcro
Screw mounting bracket

Connectors, SIM Access

Connection Type	20-pin Molex-type or captive 2,6 or 10-wire harness
GPS Antenna	External SMA or internal (w/ tamper monitoring, 3V)
Cellular Antenna	External SMC or internal
SIM Access	Internal (except CDMA)

Certifications

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

Electrical

Operating Voltage	7-32 VDC (momentary)
	9-30 VDC (start-up, operating)
Power Consumption	<3 mA @ 12V (deep sleep)
	<10mA @ 12V (sleep on network with SMS)
	<20mA @ 12V (sleep on network with UDP)
	<70mA @ 12V (active tracking)

Development Support Options

Customized hardware and software development available on request
