

Vehicle Tracking System

Laipac Technology Inc.



STARFINDER'S FEATURES

- Available for GSM, GPRS, CDMA/1X
- FCC & CE approval
- Just 15 x 15 x 3.5 cm
- Power, GPS & GSM LED indication
- Optional backup battery for 6 hrs runtime
- 2 x Input by opto-coupler to protect internal circuit from peak current & voltage
- 2 x relay output of 15A ideal for enabling/disabling car ignition or triggering other electronic devices
- 1 x RS232 output for data logger download or NMEA output for in-car navigation
- Optional Keyfob Panic Transmitter accessory
- Optional connection for external MIC and speaker
- Individual Geo-fence capability with in/out reporting
- Datalogger capability built in with 256Kb memory for recording time stamp, speed, position and I/O state
- Dynamic time interval and distance travelled settings for position reporting and data logging
- Change parameters over the air or local through the RS232 COM port
- Additional RJ11 port for external analog sensors (based on customer requirement)
- Mileage accumulator built in. The user can set the initial mileage and get the real time report of the mileage over the air
- High performance Laipac GPS receiver built in with an accuracy of 3m in North America (WAAS) & Europe (EGNOS) and 10m worldwide

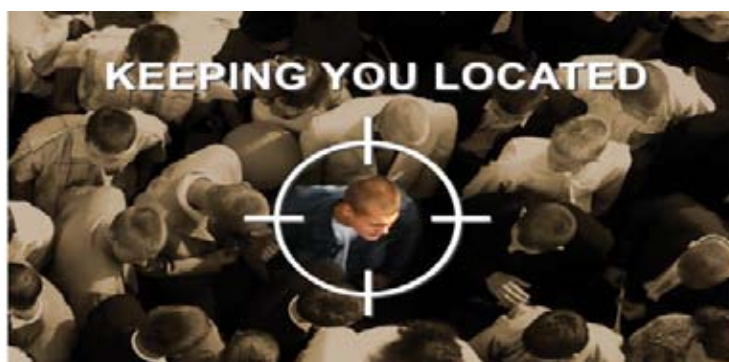
Starfinder AVL

Laipac's Starfinder AVL system provides a very low cost but powerful solution for automatic vehicle location and other GPS tracking applications. It combines GPS and wireless M2M technology, and is designed for multiple automotive applications such as vehicle tracking, fleet management, asset control, and GPS data logging.

LocationNow.com

LBS Solutions Centre

Laipac Technology has created the LBS Solutions Centre to offer the Location Based Web Application for end-users, system integrators, and service providers. Our robust backend solution can efficiently handle small projects (<10 devices) as well as large projects (>1000 devices). Our solutions have been tested in the field by worldwide customers. We will make your life much easier and greatly reduce your time-to-market. For more information, please visit www.locationnow.com or contact our sales department - sales@laipac.com



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PERFORMANCE

HIGH QUALITY

The Starfinder AVL is manufactured by Laipac's CM under ISO standards.

COMPACT VERSATILE MOUNTING

The Starfinder AVL's lightweight and compact size facilitates easy mounting in tough positions for in-vehicle installation.

VERSATILE GPS OPTIONS

Laipac's built in high sensitivity GPS receivers provide the best accuracy for Starfinder AVL any place in the world.

ONE MODEL FOR EACH NEED

The Starfinder AVL comes in different versions to be used for different wireless network: GSM 850/1900 – GSM900/1800 – GPRS 850/1900 – GPRS 900/1800 – CDMA/1x

STRENGTH & DURABILITY

ENVIRONMENTAL TESTS

In addition to FCC and CE approval, Starfinder AVL meets most industrial standards.

CHASSIS

The lightweight metal chassis makes the Starfinder AVL suitable for rough environments.

SECURITY

PRIVATE PROTOCOL

Laipac's Starfinder AVL protocol provides high efficiency and security for 2-way communications between the Unit and the Control Center.

ID & PASSWORDS

Unique ID and passwords programmable for each Starfinder AVL unit.

ELECTRICAL & ENVIRONMENTAL

Characteristic	Min	Typical	Max	Units
DC Supply Voltage	7.0	13.8	48	V
DC Supply Current	40	140	240	mA
Positive input transient (< 100mS)			60	V
Peak Current (< 100mS)			1900	mA
Supply ESD susceptibility			12	kV
Ambient operating temperature	-35		80	°C
Storage temperature	-40		120	°C

GPS ENGINE SPECS

Characteristic	Value	Units
Channels	20	Ch.
Position accuracy	3-10	Meters
Velocity accuracy	0.1	M/S
Time accuracy	1	uS
Cold start acquisition time	48	S
Warm start acquisition time	38	S
Hot start acquisition time	8	S
Maximum altitude tracked	18,000	M
Maximum velocity tracked	515	M/S
WAAS/EGNOS/MSAS	Yes	-
GPS Sensitivity	-160	dBm

HARDWARE FEATURES

- Power, GPS and Cell phone function's indicated by external LEDs.
- 2 x inputs with high voltage protection for panic button, ignition contact or other vehicle power switches.
- 2 x 15A relays for enabling/disabling of ignition or for triggering alarms.
- 1 RS232 output for data logger downloading or NMEA output for in-car navigation.
- Optional Keyfob Panic Transmitter accessory.
- Optional external MIC and Speaker connections available
- Built-in Data logger with 256Kb internal flash memory for recording time stamp, speed, position and I/O state. The data can be downloaded via the RS232 port or over the air.
- Time interval and distance travelled settings for position reporting and data logging.
- Additional RJ11 port for external analog sensors.
- High performance Laipac GPS receiver built in, the typical accuracy is 3m in North America (WAAS) & Europe (EGNOS) and 10m worldwide.
- Mileage accumulator built in.

OPTIONS

- Keyfob – Remote Panic Transmitter
- MDT terminal for dispatching (future accessory)
- Internal Backup Battery
- Voice Communications
- Satellite Communications
- Analog port for custom data acquisition
- OEM Private Labeling

