



FEATURES

- 48 track verification channels
- SIRF-IV low power chipset
- Tracking sensitivity -163dBm
- Acquisition sensitivity -147dBm
- Cold start < 34 seconds
- Hot start < 1sec under open sky
- 2.5m CEP accuracy
- Support SAGPS function
- SBAS (WAAS, EGNOS) support
- 2M Bytes flash memory for data logging, with 16M-Bit binary data per record that stores up to 256K data records
- Log data can be exported to mapping software such as Google Earth and TrackMaker
- Logging data interval programmable: by time or distance
- Data tag (start, stop point) can be set by user
- Ultra low power consumption: over 17/56 hours continuous use by 450mAh battery
- USB version 1.1/2.0 interface
- Easy-plug-in Notebook
- Super mini size: 77.48x28x17.77 mm

GT-730FL-S Route Logger Dongle Fast Acquisition high-Sensitivity 48 track verification USB GPS Dongle

The GT-730FL-S is a single board of USB-GPS receiver for customers who require easy system integration and minimal development risk.

The GT-730FL-S is optimized for good performance and low cost. Its 65 parallel channels and Venus 6 search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and high sensitivity, the GT-730FL-S offers good navigation performance even in urban canyons.

The GT-730FL-S is capable of keeping up to 256K records or positions, including longitude, latitude, speed, UTC, and tag data. The location histories can be exported to mapping software such as Google Earth or TrackMaker.

Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy. Besides it also supports SAGPS function and fixed in the short time.

The onboard patch antenna provides good signal reception. It provides fast satellite signal acquisition and short startup time. Acquisition sensitivity of -147dBm and tracking sensitivity of -163dBm offers good navigation performance even in urban canyons having limited sky view.

USB interface are provided on the interface connector. Supply voltage of 5V is supported.



TECHNICAL SPECIFICATIONS

Receiver Type	48 parallel channels, L1 C/A code
Accuracy	Position 2.5m CEP Velocity 0.1m/sec
Startup Time (average)	< 1sec hot start < 34sec cold start
Signal Reacquisition	1s
Sensitivity	-147dBm acquisition -163dBm tracking
Update Rate	1Hz standard (5Hz/10Hz special order)
Dynamics	4G (39.2m/sec ²)
Serial Interface	USB
Protocol	NMEA-0183 V3.01 GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, GPZDA 4800/9600/19200/38400 baud, 8, N, 1
Datum	Default WGS-84 User definable
LED Indicator	Blue - GPS / Datalogger status Red - Charging battery Green - Battery low
Input Voltage	5V DC
Input Current	Typical 26mA tracking (1Hz standard version) & <every 5 second to record point Typical 8mA tracking (1Hz standard version) & <every 7 second to record point
Dimension	77.48mm L x 28mm W x 17.77mm H
Weight:	15g (Including Battery)
Operating Temperature	-40°C ~ +85°C
Humidity	5% ~ 95%



Binary Messages

See *Binary Message Protocol User's Guide* for detailed descriptions.

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