



GPS USB
DONGLE
E-L



GT-730F-S

Fast Acquisition high-Sensitivity 65 Channels USB GPS Receiver Dongle

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

The GT-730F(L)-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-730F(L)-S offers good navigation performance even in urban canyons.

The GT-730F(L)-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 A-GPS 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 -155dBm and tracking sensitivity of -160dBm 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.

FEATURES

- Acquire and track 65 satellites simultaneously
- SKYTRAQ low power chipset
- Signal detection better than -160dBm
- Reacquisition sensitivity -155dBm
- Cold start < 30 seconds at -147dBm
- Hot start < 1sec under open sky
- 5m CEP accuracy
- Support A-GPS function
- SBAS (WAAS, EGNOS) support
- 2M Bytes flash memory for data logging, with 16 bytes 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 18 hours continuous use by 450mAh battery
- USB version 1.1/2.0 interface
- Easy-plug-in Notebook
- Super mini size: 77.48x28x17.77 mm

TECHNICAL SPECIFICATIONS

Receiver Type	65 parallel channels, L1 C/A code
Accuracy	Position 5m CEP Velocity 0.1m/sec
Startup Time (average)	< 1sec hot start < 30sec cold start
Signal Reacquisition	1s
Sensitivity	-155dBm Re-acquisition -160dBm tracking -147dBm Cold Start
Update Rate	1Hz standard
Dynamics	4G (39.2m/sec ²)
Operational Limits	Altitude < 18,000m or velocity < 515m/s (COCOM limit, either may be exceeded but not both)
Protocol	NMEA-0183 V3.01 GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, GPZDA 4800/9600/19200/38400 baud, 8, N, 1 (The baudrate of production is 38400)
Datum	Default WGS-84 User definable
LED Indicator	Blue - GPS / Datalogger status Red - Charging battery Green - Battery low
Input Voltage	5V DC
Input Current	<26mA tracking (1Hz standard version)
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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