CanMore™

GT-730F(L)

Fast Acquisition high-Sensitivity 54 Channels USB GPS Receiver Dongle With Data Logger functionality

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

The GT-730F(L) is optimized for good performance and low cost. Its 54 parallel channels and Venus 5 search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and high sensitivity, the GT-730F(L) offers good navigation performance even in urban canyons.

The GT-730F(L) is capable of keeping up to 1,000,000 recordsor 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 3.8V~8.0V is supported.

FEATURES

- Acquire and track 54 satellites simultaneously
- Venus 5 simultaneous time-frequency search bins
- 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
- 8M Bytes flash memory for data logging, with 16 bytes binary data per record that stores up to 1,000,000 data records
- Log data can be exported to mapping software suchas Google Earth and TrackMaker
- Logging data interval programmable: by time or distance
- USB version 2.0 interface
- Easy-plug-in Notebook
- Easy-installation USB driver
- Super mini size:73.5x27x10 mm

TECHNICAL SPECIFICATIONS

Receiver Type	54 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 38400 baud, 8, N, 1
Datum	Default WGS-84 User definable
Input Voltage	3.8~8V DC
Power Consumption	< 42mA (1Hz standard version)
Dimension	73.5mm L x 27mm W x 10mm H
Weight:	18g (Including Battery)
Operating Temperature	-40^{o}C ~ +85^{o}C
Humidity	5% ~ 95%

Binary Messages

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

CanMore Electronics Co., LTD.

4F.,No. 30, Sec.1,Jiafong 5th Rd.,Jhubei City
Hsinchu County, 302, Taiwan

Phone +886 3 6586046
Fax +886 3 6583940
Email sales@canmore.com.tw
Website:http:// www.canmore.com.tw
http://canmorecorp.trustpass.alibaba.com/