CanMore™

GT-730F
Fast Acquisition high-Sensitivity
65 Channels USB GPS Receiver Dongle

FEATURES

- Acquire and track 65 satellites simultaneously

- Venus 6 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

- USB version 2.0 interface

- Easy-plug-in Notebook

- Easy-installation USB driver

- Super mini size:73.5x27x10 mm

The GT-730F is a single board of USB-GPS receiver and compact all-in-one GPS module solution intended for a broad range of Original Equipment Manufacturer (OEM) products, where fast and easy system integration and minimal development risk is required.

The GT-730F 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 offers good navigation performance even in urban canyons.

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.

USB interface are provided on the interface connector. Supply voltage of 3.8V~8.0V is supported.

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TECHNICAL SPECIFICATIONS

Receiver Type	65 parallel channels, L1 C/A code
Accuracy	Position 5m CEP
	Velocity 0.1m/sec
Startup Time	< 1sec hot start
(average)	< 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
Input Voltage	3.8~8V DC
Power Consumption	< 30mA (Tracking)
Dimension	73.5mm L x 27mm W x 10mm H
Weight:	18g
Operating Temperature	-40°C ~ +85°C
Humidity	5% ~ 95%

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Binary Messages

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

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