CanMore™

GT-750F(L)

Fast Acquisition high-Sensitivity 65 Channels Bluetooth-GPS Receiver With Data Logger functionality

The GT-750F(L) is a single board of Bluetooth-GPS receiver for customers who require easy system integration and minimal development risk.

The GT-750F(L) 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-750F(L) offers good navigation performance even in urban canyons.

The GT-750F(L) is capable of keeping up to 256,000 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.

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.

Class 2 Bluetooth offers up to 10 meters of wireless operation with Bluetooth-enabled devices such as PDA, Tablet-PC or Smart mobile phone.

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
- SBAS (WAAS, EGNOS) support
- 2M Bytes flash memory for data logging, with 16 bytes binary data per record that stores up to 256,000 data records
- Log data can be exported to mapping software such as Google Earth and TrackMaker
- Logging data interval programmable: by time or distance
- Bluetooth version 2.0 compliant
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Support G-mouse function via USB cable
- Charger circuitry and battery socket for N3650 Li-ION battery
- More than 13 hours of operation
- Dimension:73x44x21 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 38400 baud, 8, N, 1
Datum	Default WGS-84 User definable
Bluetooth Interface of operation	SPP compatible, version 2.0 compliant, class-2 operation, 4dBm output level Up to 10m
LED Indicator	Blue - Bluetooth status Red - Battery low Green - Charging battery Yellow- GPS status
Switch	Tact switch ON / OFF
Battery	For battery socket Li-ION rechargeable battery (700 mA)
Input Voltage	5V DC
Power Consumption	< 46mA (1Hz standard version)
Dimension	73mm L x 44mm W x 21mm H
Weight:	60g (Including Battery)
Operating Temperature	-40^{o}C ~ +85^{o}C
Humidity	5% ~ 95%

GPS

Binary Messages

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

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