



## GT-720FGM

### 54 Channels GPS Receiver

### Fast Acquisition high Sensitivity

#### GENERAL DESCRIPTION

The GT-720FGM is a compact all-in-one GPS receiver that continuously tracks all satellites in view and provides accurate satellite positioning data.

Incorporating the high GPS technology, GT-720FGM with acquiring 54 channels ability improving cold-start fast positioning. It can track 54 channels down to -159 dbm and offers extremely accuracy even under attenuated situations such as high buildings in urban areas, dense foliage and even indoor. Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy.

The GT-720FGM is optimized for applications requiring highperformance and low cost; it is suitable for a wide range of handhelds, asset tracking, Notebook, PDA-centric personal navigation system, and vehicle navigation products.

#### PRODUCT FEATURES

- **Acquire and track 54 satellites simultaneously**
- Skytraq low power chipset simultaneous time-frequency search bins
- **Signal detection better than -159dBm**
- Reacquisition sensitivity -155dBm
- Cold start < 30 seconds
- Hot start < 1sec under open sky
- 5m CEP accuracy
- **Support A-GPS function**
- **SBAS (WAAS, EGNOS) support**
- PS2 cable Built-in patch antenna, 6 pins wafer connector RS232/TTL output
- Easy-plug-in Notebook
- Easy-installation USB driver
- **Super mini size: 50 x 40 x 16 mm**

**TECHNICAL SPECIFICATIONS**

Receiver Type	54 parallel channels, L1 C/A code
Accuracy	Position 5m CEP Velocity 0.1m/sec Timing better than 1 $\mu$ s
Startup Tim (Average)	< 1sec hot start (Average) under open sky < 10sec warm start (Average) under open sky < 30sec cold start (Average) under open sky
Signal Reacquisition	1sec
Sensitivity	-159dBm tracking
Update Rate	1Hz standard
Dynamics	4G (39.2m/sec <sup>2</sup> )
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 baud, 8, N, 1
Datum	Default WGS-84 (User definable)
Serial Interface	LVTTL Level and RS-232 Level
Interface Connector	PS2
Input Voltage	3.3V +/- 100mV or 3.8V ~ 8.0V DC (5V version)
Power Consumption	< 42mA (1Hz standard version)
Dimension	50mm L x 40mm W x 16mm H
Weight	20g
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-20°C ~ +85°C
Operation Humidity	- 5% ~ 95%, Non-Condensing

All specifications are subject to change without notice

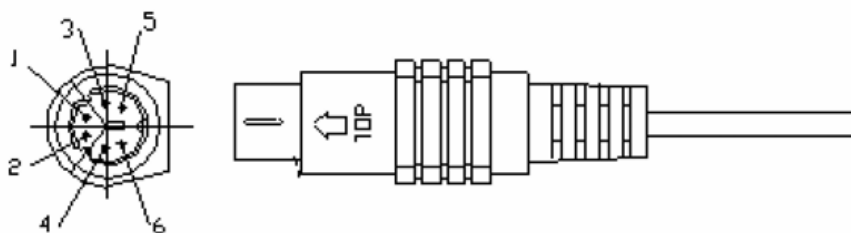
## Housing

- Water Proof : IP65

## STANDARD PACKAGE

- GT-720FGM Mini-DIN GPS Receiver
- Standard OEM Package

## MINI-DIN PIN ASSIGNMENT



PIN	Function
1	GND
2	VCC
3	NC
4	RX
5	TX
6	NC

## Binary Messages

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



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