



## **MG-720F Module Specification Overview**

EOL replacement for EOL  
BG-320 Module model

# MG-720F

## Fast-Acquisition High-Sensitivity 65-Channel GPS Receiver Module

MG-720FW is a miniature 65-channel OEM GPS receiver module. It is optimized for high-performance, ease-of-use, flexibility, and low-cost. The GPS receiver is suitable for a wide range of navigation and tracking applications. Re-acquisition sensitivity of -155dBm and tracking sensitivity of -158 dBm offer good performance even under difficult environments.

Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy



### 1. FEATURES

- 51 channel to acquire and 14 track
- satellites simultaneously
- Industry-leading TTFF speed
- Signal detection better than -158 dBm
- 0.5 PPM TCXO for quick cold start
- Integral LNA with low power control
- SBAS (WAAS/EGNOS) capable
- Selectable User Profiles with ability to change and save configuration to Flash
- Cold start < 45sec
- Hot start < 1sec
- Accuracy 5m CEP
- 34 mm L x 34 mm W x 9.4 mm H
- RoHS compliance

## 2.1 RECEIVER SPECIFICATIONS

Parameter	Specification
Receiver Type	65 channel
Re-acquisition sensitivity	-155dBm
Tracking sensitivity	-158dBm
Cold start sensitivity	-143dBm
Receiver frequency	1575.42MHz
Code	C/A code
Accuracy (1) Position (2) Velocity	5m CEP 0.1m/sec
Startup Time hot start warm start cold start	< 1 sec < 35 sec < 45 sec
Signal Reacquisition	<1s
Update Rate	1Hz (standard)
Operational Limits (1) Altitude (2) velocity	< 18,000m < 500m/s
Dynamics	4G (39.2m/sec <sup>2</sup> )
Datum	WGS-84(Default)
Protocol	NMEA-0183 V3.01