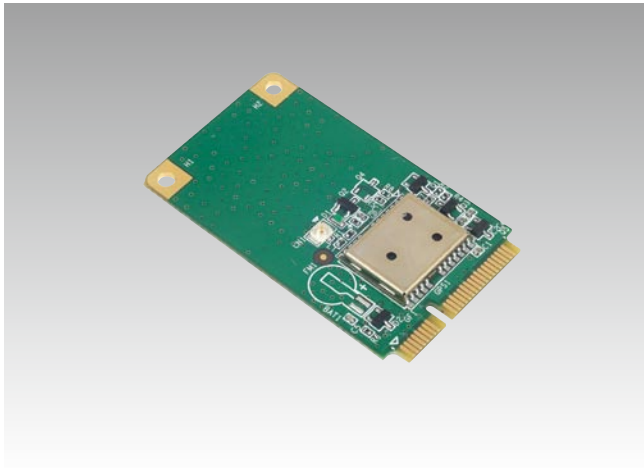


EWM-G107F

Embedded GPS/GALILEO Full-Size PCI Express Mini Card



Features

- 50-channel u-blox-5 engine with over 1 million effective correlators
- <1 second TTFF for Hot and Aided Starts
- -160dBm SuperSense® Indoor GPS acquisition and tracking sensitivity
- Receives GPS and GALILEO signals
- SBAS (WAAS, EGNOS, MSAS, GAGAN)
- PCI-Express Half Mini Card
- Operating temperature -40 ~ +85° C
- RoHS compliant
- Software NMEA Parser & API Support

Introduction

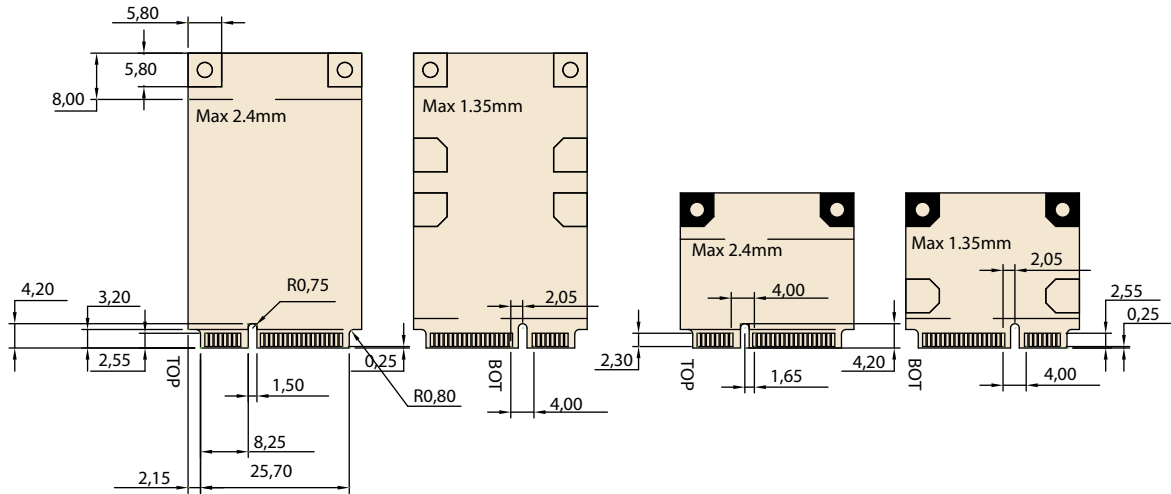
The EWM-G107F enables simple integration of GPS functionality into rugged tablet PC, vehicle computer and further similar handheld devices. The EWM-G107F is ready-to-use solutions, composed of a GPS chipset incorporated into the PCI Express Full-size Mini Card platform.

Specification

Parameter	Specification	
Receiver Type	50 Channels	
	GPS L1 frequency, C/A code	
	GALILEO Open Service L1 frequency	
Time-To-First-Fix	Cold Start	29 s
	Warm Start	29 s
	Hot Start	< 1 s
Sensitivity	Tracking & Navigation	-160 dBm
	Reacquisition	-160 dBm
	Cold Start	-144 dBm
Horizontal Position Accuracy	Autonomous	< 2.5m
	SBAS	< 2.0m
Accuracy of Time pulse signal	RMS	30ns
	99%	< 60ns
	Time pulse Configurable	f= 0.25 ... 999 Hz (Tp = 1/f - 1ms)
Max navigation update rate	< 4 Hz	
Velocity Accuracy	0.1 m/s	
Heading Accuracy	0.5 degrees	
Dynamics	< 4g	
Operational Limits	Velocity	515 m/s (1000 knots)
Operating Temperature		-40 ~ +85° C

Dimensions

Unit: mm



Packing List

Description	Quantity
GPS function Full-size PCI-Express Mini Card	X 1

Ordering Information

Part Number	Specification
EWM-G107F01E	u-blox 50-channel GPS Full-size PCI-Express Mini Card

Optional Accessories

Part Number	Specification
1700006712	SMA Female - MHF Male CRMP type for 1.32 Cable 100mm
1750001782	Active GPS Antenna with 5M SMA Male

Pin Definition

