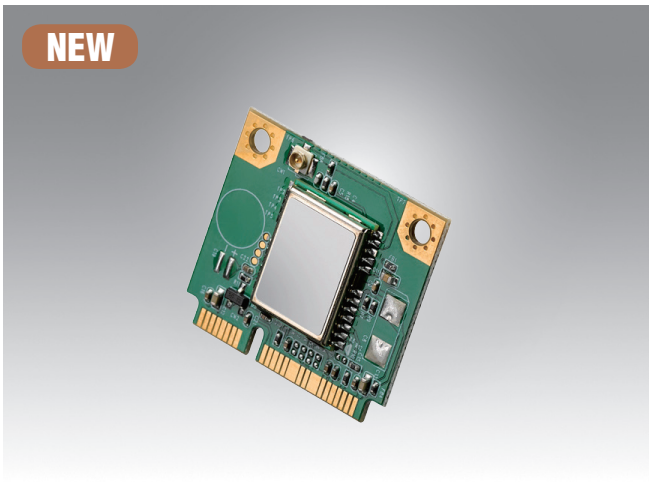
EWM-G110H

Embedded Multi-GPS/ GNSS + G sensor Module Half-size Mini PCIe Card



Features

- 72-Ch u-blox NEO-M8 engine (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
- Untethered Dead Reckoning(UDR)
- Including 3D inertial sensors
- 1.5 second TTFF for Hot Starts, Open sky code start 26 second.
- Accuracy SBAS 2.0 m CEP
- Operating temperature: -40 to +85° C

RoHS CE FCC

Specifications

Main Chipset	u-blox NEO-M8U
Receiver Type	72 Channels GPS/QZSS L1 C/A, GLONASS L1 L10F, BeiDou B1, SBAS L1 C/A: WAAS/EGNOS/MSAS, Galileo-ready E1B/C
Time-To-First-Fix (GPS + GLONASS)	Cold Start: 26 s Hot Start: 1.5 s Aiding Start: 2 s
Sensitivity (GPS + GLONASS)	Tracking & Navigation: -167 dBm Reacquisition: -160 dBm Cold Start: -148 dBm
Horizontal Position Accuracy	SBAS: 2.0 m
Accuracy of Time Pulse Signal	RMS: 30 ns 99%: 60 ns Time Pulse Configurable: f=0.25…10M Hz
Velocity Accuracy	0.05 m/s
Heading Accuracy	0.3 degress
Dynamics	< 4 g
Operational Limits	Altitude: 50000 m, Velocity: 500 m/s
Operating Temperature	-40 to +85° C

Ordering Information

Part No.	Product Description
EWM-G110H01E	Industrial GPS NEO-M8U, GPS/BeiDou/Galileo/GLONASS + G sensor, Half-size Mini PCIe Card

Suggested Antenna and Cable

Part No.	Specifications
1750007991-01	GPS antenna 1575 MHz, Antenna 3 dBi, (Zenith) L1: 1575.42 MHz, B2: 1561.098 MHz, GNSS: 1602 MHz antenna 4.94 x 3.93 x 1.49, RHCP and SMA male (cm)
1750006264	Coaxial Cable, 15 cm, SMA (F) to MHF
1750006009	Coaxial Cable, 25 cm, SMA (F) to MHF

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Last updated: 25-Sep-2018