

# EWM-G109H

## Embedded Multi-GPS/ GNSS Module Half-size Mini PCIe Card

NEW



### Features

- 72-Ch u-blox NEO-M8 engine (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
- 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

### Specifications

|                                      |                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Main Chipset                         | u-blox NEO-M8N                                                                                                      |
| Receiver Type                        | 72 Channels<br>GPS/QZSS L1 C/A, GLONASS L1 L10F,<br>BeiDou B1, SBAS L1 C/A: WAAS/EGNOS/MSAS,<br>Galileo-ready E1B/C |
| Time-To-First-Fix<br>(GPS + GLONASS) | Cold Start: 26 s<br>Hot Start: 1.5 s<br>Aiding Start: 2 s                                                           |
| Sensitivity<br>(GPS + GLONASS)       | Tracking & Navigation: -167 dBm<br>Reacquisition: -160 dBm<br>Cold Start: -148 dBm                                  |
| Horizontal Position Accuracy         | SBAS: 2.0 m                                                                                                         |
| Accuracy of Time Pulse Signal        | RMS: 30 ns<br>99%: 60 ns<br>Time Pulse Configurable: f=0.25...10M Hz                                                |
| Velocity Accuracy                    | 0.05 m/s                                                                                                            |
| Heading Accuracy                     | 0.3 degrees                                                                                                         |
| 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-G109H01E | Industrial GPS NEO-M8N, GPS/BeiDou/Galileo/<br>GLONASS, Half-size Mini PCIe Card |

### Suggested Antenna and Cable

| Part No.      | Specifications                                                                                                                                           |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1750007991-01 | GPS antenna 1575 MHz, Antenna 3 dBi, (Zenith)<br>L1: 1575.42 MHz, B2: 1561.098 MHz, GNSS: 1602 MHz<br>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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