

AIW-213HU

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

NEW



RoHS COMPLIANT CE FCC

Features

- 92 Channels u-blox NEO-M8 engine (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
- Untethered Dead Reckoning(UDR)
- Including IMU and Oscillator
- 2 second TTFF for Hot Starts, Open sky code start 24 second.
- Accuracy SBAS 1.5M CEP
- Operating temperature: -40 to +85° C

Specifications

| | |
|--------------------------------------|---|
| Main Chipset | u-blox NEO-M9V |
| Receiver Type | 92 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: 24 s Hot Start: 2 s Aiding Start: 3 s |
| Sensitivity (GPS + GLONASS) | Tracking & Navigation: -159 dBm Reacquisition: -158 dBm Cold Start: -147 dBm |
| Horizontal Position Accuracy | SBAS: 1.5 m |
| Accuracy of Time Pulse Signal | RMS: 30 ns 99%: 60 ns Time Pulse Configurable: f=0.25...10M Hz |
| Velocity Accuracy | 0.08 m/s |
| Heading Accuracy | 0.3 degrees |
| Dynamics | < 4 g |
| Operational Limits | Altitude: 8000m, Velocity: 500 m/s |
| Operating Temperature | -40 to +85° C |

Ordering Information

| Part No. | Product Description |
|---------------|---|
| AIW-213HU-001 | Industrial GPS NEO-M9V, 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 |