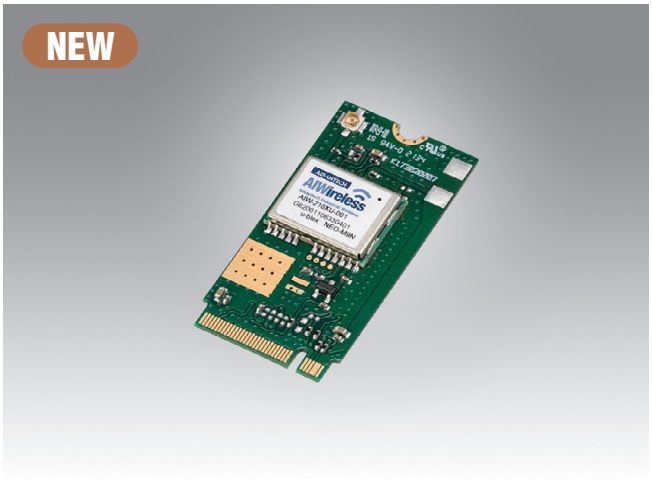
AIW-210

Industrial GPS Module with M.2 2242 B Key Interface



Features

- M.2 2242 Key B form factor
- 92-Channel u-blox NEO-M9N engine (GPS, QZSS, GLONASS, BeiDou, Galileo and SBAS)
- Open sky cold start 24 second / Aided starts 2 second
- USB 2.0 interface
- Accuracy 1.5m CEP
- Cold start 24 seconds under open sky / 2 seconds during aided & hot start
- Operating temperature: -40°C ~ +85°C / -40°F ~ 185°F

Specifications

Main Chipset	u-blox NEO-M9N
Receiver Type	92 Channels GPS L1 C/A, QZSS L1 C/A/S, GLONASS L10F BeiDou B1I, Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Time-To-First-Fix (GPS + GLONASS)	Cold Start (Autonomous): 24 seconds Hot Start (Autonomous): 2 seconds Aided Start: 2 seconds
Sensitivity (GPS + GLONASS)	Tracking & Navigation: -167 dBm Reacquisition: -160 dBm Cold Start (Autonomous): -148 dBm
Horizontal Position Accuracy	SBAS: 2.0 m
Time Pulse Signal Accuracy	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	≤4g
Operational Limits	Altitude: 80000 m, Velocity: 500 m/s
Operating Temperature	-40 to +85° C / -40°F ~ 185°

研伟科技 15323776600

Ordering Information

Part No.	Product Description
AIW-210 XU-001	Industrial GPS NEO-M9N, GPS/BeiDou/Galileo/ GLONASS, M.2 2242 B Key module

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 / 5.9 in, SMA (F) to MHF
1750006009	Coaxial Cable, 25 cm / 9.8 in, SMA (F) to MHF

All product specifications are subject to change without notice.

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