

AIW-212

Industrial GPS module with half sized mini-PCIe interface

NEW



Features

- Half sized mini-PCIe 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
- 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 degrees
Dynamics	≤4g
Operational Limits	Altitude: 80000 m, Velocity: 500 m/s
Operating Temperature	-40°C ~ +85°C / -40°F ~ 185°F

Ordering Information

Part No.	Product Description
AIW-212 HU-001	Industrial GPS NEO-M9N, GPS/BeiDou/Galileo/GLONASS, half sized mini-PCIe module

Suggested Antenna and Cable

Model Name	Part No.	Specifications
AIW-520	1751000667-01	High performance active antenna, waterproof, wide operating temperature range, IP67 level
	1751000650-01	Coaxial Cable, 10cm, SMA female to IPEX1
	1751000629-01	Coaxial Cable, 15cm, SMA female to IPEX1
	1751000631-01	Coaxial Cable, 20cm, SMA female to IPEX1
	1751000628-01	Coaxial Cable, 25cm, SMA female to IPEX1
	1751000632-01	Coaxial Cable, 30cm, SMA female to IPEX1