

AIW-213HU

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

NEW



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 degree
Dynamics	< 4 g
Operational Limits	Altitude: 80000 m, 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

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