



Product Specifications

Receivers	Integrated Antennas	Heading Output	Heading RMS Accuracy at Baseline (m)						Position Accuracy (m, RMS)				
			0.13	0.27	0.5	1.0	5.0	10.0	Auton.	SBAS	Beacon	RTK	Atlas Capable
AtlasLink	Yes	-	-	-	-	-	-	1.2	0.3	-	0.01	Yes	
R330	-	-	-	-	-	-	-	1.2	0.3	0.3	0.01	Yes	
V102	Yes	Yes	-	0.75°	-	-	-	1.2	0.3	-	-	-	
V103	Yes	Yes	-	-	0.24°	-	-	1.2	0.3	-	0.01	-	
V113	Yes	Yes	-	-	0.24°	-	-	1.2	0.3	0.3	0.01	-	
V104	Yes	Yes	2.00°	-	-	-	-	1.2	0.3	-	-	-	
V320	Yes	Yes	-	-	0.17°	-	-	1.2	0.3	-	0.01	Yes	
VS330	-	Yes	-	-	0.17°	0.09°	0.02°	0.01°	1.2	0.3	0.3	0.01	Yes
Boards													
H102	Yes	Yes	-	0.75°	-	-	-	1.2	0.3	-	-	-	
H200	-	Yes	-	-	0.24°	0.13°	0.03°	-	1.2	0.3	-	0.01	-
H301	-	Yes	-	-	0.17°	0.09°	0.02°	0.01°	1.2	0.3	-	0.01	-
H321	-	Yes	-	-	0.17°	0.09°	0.02°	0.01°	1.2	0.3	-	0.01	Yes

Hemisphere GNSS designs and manufactures innovative, cost-effective GNSS products for positioning, heading, and navigation applications for marine, survey, construction, mapping, OEM, and other markets. The Company holds numerous patents and other intellectual property and sells globally with several leading product brands, including Athena™, Atlas®, Crescent®, Eclipse™, and Vector™ for precise GNSS applications. Hemisphere GNSS has its business headquarters in Scottsdale, Arizona, USA and is part of UniStrong Science & Technology Co., Ltd. in Beijing, China.



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Marine GNSS Positioning and Heading Solutions



Hemisphere

Vector V102 GPS Compass



- Robust all-in-one heading, positioning, pitch, roll, and heave compass
- Maintains heading during GPS interruptions

Vector V103 and V113 GPS Compasses



- Enhanced heading and positioning with GPS and GLONASS
- No lengthy calibration necessary
- IMO certified

Vector V104 GPS Compass

- Robust, small form-factor all-in-one heading, positioning, pitch, roll, and heave compass



Experience superior navigation with Hemisphere GNSS' all-in-one GNSS compass solutions. Vector™ GNSS compasses provide precise heading and positioning for IMO Wheelmark applications, hydrographic surveying vessels, fishing vessels, leisure boats, work boats, and other general marine navigation applications.

Hemisphere's Vector compasses bring a collection of robust features including heave, pitch, and roll output as well as NMEA 0183 and NMEA 2000 support.

The all-in-one Vector compasses combine Hemisphere's Crescent® and Eclipse™ technologies and multipath-resistant antennas for simple installation on flat surfaces or pole mounting.

The rugged and reliable design of Vector compasses make them an ideal solution to replace traditional gyrocompasses, at a fraction of the cost.

Hemisphere

R330 GNSS Receiver

- High-accuracy positioning in RTK, GNSS, and SBAS
- Long-range RTK baselines up to 50 km
- Atlas® capable



Vector V320 GNSS Compass



- High-accuracy positioning with multi-frequency GPS, GLONASS, and BeiDou RTK
- Simple all-in-one installation with 0.17° heading accuracy
- Atlas® capable

AtlasLink GNSS Smart Antenna

- Environment-proven enclosure for the most aggressive user scenarios



Vector H301 GNSS Compass Board

- High-accuracy heading over short baselines, RTK positioning, 5 cm rms RTK enabled heave and precise timing in small form factor



Vector VS330 GNSS Compass

- Eclipse multi-frequency Vector sensor
- Achieve variable heading accuracies up to 100 m baseline
- Atlas® capable



AtlasLink is preconfigured to receive corrections from Atlas® GNSS global correction service and was designed to excel in challenging environments and is ideal for use in a variety of applications including precision agriculture, machine control, construction, mining, and marine.

Hemisphere

Vector H102 GPS Compass OEM Board



- Affordable solution delivers 2D GPS heading accuracy better than 0.75° rms

Crescent Vector H200 Board

- L1 GPS/GLONASS RTK capable
- 10 cm heave accuracy with RTK
- Excellent heading performance



Vector H321 GNSS Compass Board

- L1/L2 GPS/GLONASS/BeiDou RTK capable
- 5 cm rms RTK-enabled heave accuracy
- Superior heading performance
- Atlas® capable



Enjoy the simplified integration, flexible communication, and powerful, precise performance of the all-in-one Vector H102 GPS compass OEM board. The integrated Crescent Vector technology offers precise heading and positioning as well as heave, pitch, and roll output.

The Crescent Vector H200 board is the next generation, single frequency, high-performance GNSS heading, positioning, and attitude module available on the market from Hemisphere GNSS. Diversity and cost savings makes it an ideal part of your solution for system integrators.

Develop sophisticated machine control and navigation solutions in a world full of complex dynamic environments. The Vector H321 GNSS compass board uses GPS, GLONASS, and BeiDou satellites for the highest positioning and heading accuracy.