



Hemisphere GNSS designs and manufactures innovative, cost-effective GNSS and complimentary products for positioning, heading, and navigation applications. For more than 22 years, we have established numerous patents and other intellectual property. We are a global company with sales in more than 55 countries with several leading product brands, including Crescent®, Eclipse™, and Vector™, for precise GNSS applications. Our innovative GNSS receiver and antenna technologies are sold on the board level to OEM integrators and as positioning and navigation components for use in marine, land survey, machine control, and mapping applications.



* Board is actual size

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Enhance **Your Position**



GNSS OEM Modules

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Positioning Modules



Crescent P102/P103 OEM Modules

- Low cost, high performance single frequency GPS module
- Differential positioning accuracy of 0.25 m rms using SBAS or DGPS corrections
- COAST technology maintains differentially corrected positions for up to 40 minutes or more after a loss of differential signal
- P102 (34 pin), P103 (20 pin)



Eclipse P302 and P303 OEM Modules

- Long range dual frequency GPS and GLONASS capable RTK solutions
- Compatible with many RTK correction formats including Hemisphere GNSS' ROX format, RTCM, CMR, CMR+
- P302 (34 pin), P303 (20 pin)



Eclipse P306 and P307 OEM Modules

- Long range dual frequency GPS, GLONASS, BeiDou and Galileo capable RTK solutions
- Multiple GNSS measurements provides robust solutions in challenging environments
- Compatible with many RTK correction formats including Hemisphere GNSS' ROX format, RTCM, CMR, CMR+
- P306 (34 pin), P307 (20 pin)



Eclipse P320 GNSS OEM Module

- Long range dual frequency GPS and GLONASS capable RTK solutions
- Compatible with many RTK correction formats including Hemisphere GNSS' ROX format, RTCM, CMR, CMR+
- Built-in L-band signal tracking



PA300 GNSS Smart Antenna Module

- Complete dual frequency GPS / GLONASS RTK capable receiver and antenna module
- Easy integration ideal for high precision applications for limited integration spaces
- Automatically switches to optional external antenna if present

Heading and Positioning Modules

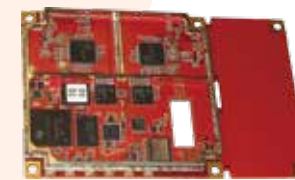
Vector H102 GPS Compass OEM Module

- Affordable solution delivers GPS heading accuracy better than 0.75°
- Differential positioning accuracy of 0.5 m rms using SBAS or DGPS corrections
- All-in-one smart antenna design ensures simple integration
- Integrated gyro and tilt sensors deliver fast startup times and maintain heading solution during temporary loss of GPS



Crescent Vector H200 Module

- Heading accuracy of 0.02° using a 5 meter antenna baseline using GPS and GLONASS
- Single frequency GPS/GLONASS RTK capable
- Integrated gyro and tilt sensors maintain heading solution during temporary loss of signal
- Robust heading, position and heave solutions in challenging environments



Vector H320 GNSS Compass Module

- Heading accuracy of up to 0.001° using a 100 meter antenna baseline using GPS and GLONASS
- Long range dual frequency GPS/GLONASS capable RTK solutions
- Integrated gyro and tilt sensors maintain heading solution during temporary loss of signal
- Robust heading, position and heave solutions in challenging environments
- Built-in L-band signal tracking



Differential Modules

LX-2 OEM Module

- Stacking L-band module adds L-band capability
- Easy integration: simply stack LX-2 with a 34 pin Hemisphere GNSS module
- Smart power management shuts module off when not in use



SBX-4 Beacon Module

- DGPS beacon module tracks free correction signals from worldwide beacon station networks
- Dual-channel design allows strongest signal or closest station tracking
- Dual serial ports accommodate separate RTCM and NMEA communication

