

For Immediate Release

Hemisphere GNSS Debuts All-New OEM Boards and Next-Generation ASIC Technology at Global Conferences

Phantom™ and Vega™ OEM boards driven by Lyra™ II digital ASIC and Aquila™ wideband RF ASIC deliver best-in-class, industry-leading performance and precision

Stuttgart, Germany – September 17th, 2019 – Today, at the INTERGEO expo and conference in Stuttgart, Germany and the ION GNSS+ conference in Miami, FL, USA, Hemisphere GNSS introduces its next-generation digital ASIC, RF ASIC, interference mitigation platforms, and five all-new positioning and heading OEM boards – the first products incorporating these powerful technological advancements.

Hemisphere's best-in-class (Lyra II) digital ASIC and (Aquila) wideband RF ASIC designs optimize performance and provide the ability to track and process over 800 channels for position-only ([Phantom series boards](#)) and over 1,100 channels for position and heading ([Vega series boards](#)). This new ASIC technology offers flexible and scalable access to every modern and planned GNSS constellation and signal, including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, SBAS, and Hemisphere's Atlas® L-band. Signal support and tracking for AltBOC and BS-ACEBOC, BeiDou phase 2 and phase 3, L5, and QZSS/L6 (L6-D and L6-E) are also available.

The Lyra II and Aquila ASIC technology provide the foundation for a new GNSS receiver chipset architecture that significantly reduces the number of board components, thereby reducing complexity, improving reliability, and dramatically lowering power consumption. The powerful technology platform also includes Hemisphere's new Cygnus™ interference mitigation technology with built-in digital filtering capabilities and spectrum analysis. The new Cygnus technology provides enhanced anti-jamming, interference detection, and mitigation.

"This new technology platform and OEM boards represent significant improvements upon previous generation technology and hardware that truly make them best-in-class and industry-leading," said Farlin Halsey, president and chief executive officer of Hemisphere. "With these outstanding advancements in our core technology and hardware, our customers and OEM partners are future-proofed and have flexibility and scalability with the highest-value access to all modern and planned signals."

The next-generation Lyra II, Aquila, and Cygnus technologies are available with the new [Phantom 20](#), [Phantom 34](#), [Phantom 40](#), [Vega 28](#), and [Vega 40](#) OEM positioning and heading boards.

The Phantom 20, 34, and 40 positioning boards are the first Lyra II-based offerings in a line of all-new, low-power, high-precision OEM boards. They are multi-frequency, multi-GNSS receivers that boast more than 800 channels including access to Hemisphere's Atlas GNSS global corrections network and offer Serial, USB, Ethernet (Phantom 40-only), and CAN connectivity for ease of use and integration. The Phantom 20 (41 x 72 mm module with 20-pin header), Phantom 34 (41 x 71 mm module with 34-pin header), and Phantom 40 (60 x 100 mm module with 24-pin and 16-pin headers) are significant upgrades for existing designs using these industry-standard form factors and offer power consumption of less than 1.8 W when tracking all signals, including L-band.

The Vega 40 and 28 are the first introductions in a line of all-new, low-power, high-precision, positioning and heading OEM boards. The multi-frequency, multi-GNSS Vega 40 and 28 GNSS receivers offer access to more than 1,100 channels including Hemisphere's Atlas GNSS global corrections network. The Vega 40 is a 60 x 100 mm module with 24-pin and 16-pin headers and is the ideal upgrade for existing designs using this industry-standard form factor. The Vega 28 is a 45 x 71 mm module with 28-pin header and is the smallest GNSS OEM heading module ever offered to the geospatial market by Hemisphere.

These all-new OEM positioning and heading boards are making their debuts and are being featured by Hemisphere at INTERGEO in Stuttgart, Germany from September 17 through 19, 2019 (hall 3, booth C3.030) and at ION GNSS+ in Miami, FL, USA from September 18 through 19, 2019 (booth 411).

About Hemisphere GNSS

Hemisphere GNSS, Inc. is an innovative high-tech company that designs and manufactures positioning and heading products, services, and technology for use in agriculture, construction & mining, marine, OEM, L-band correction service markets, and any application that requires high-precision positioning and heading. Hemisphere holds numerous patents and other intellectual property and sells globally with several leading products, service, and technology brands including [Athena™](#), [Atlas®](#), [Crescent®](#), [Eclipse™](#), [Outback Guidance®](#), and [Vector™](#) for high-precision applications. Hemisphere is headquartered in Scottsdale, AZ, USA, with offices located around the globe and is part of Beijing UniStrong Science & Technology Co., Ltd.

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