

Hemisphere GNSS Eclipse P328 OEM Positioning Board



Today, Hemisphere GNSS has announced the Eclipse P328 in a line of low-power, high-precision, positioning OEM boards. The multi-frequency, multi-GNSS P328 is an all-signals receiver board that includes Hemisphere's new hardware platform and integrates Atlas GNSS Global Corrections.

Designed with this hardware platform, the overall cost, size, weight and power consumption of the P328 are reduced. It offers true scalability with centimetre-level accuracy in either single-frequency mode or full performance multi-frequency, multi-GNSS, Atlas-capable mode that supports fast RTK initialisation times over long distances. The 60mm x 100mm module with 24-pin and 16-pin headers is a drop-in upgrade for existing designs using this industry standard form factor.

All Satellites

The platform enables simultaneous tracking of all satellite signals including GPS, GLONASS P-code, BeiDou, Galileo, and QZSS making it robust and reliable. The updated power management system efficiently governs the processor, memory, and ASIC making it ideal for multiple integration applications. The P328 offers flexible and reliable connectivity by supporting serial, USB (on-the-go with future firmware upgrade), CAN, and Ethernet for ease of use and integration. Optional output rates of up to 50Hz are also supported.

Capabilities

Powered by the Athena GNSS engine, the P328 provides centimetre-level RTK. Tested and proven, according Hemisphere GNSS, Athena is showing performance with long baselines, in open-sky environments, under heavy canopy and in geographic locations experiencing significant scintillation. Together with Hemisphere's SureFix, the P328 delivers high-fidelity RTK quality information that results in guaranteed precision with virtually 100% reliability.

Technology Features

Integrated L-band adds support for Atlas GNSS global corrections for metre to sub decimetre-level accuracy while Tracer technology helps maintain position during correction signal outages. The P328 also uses Hemisphere's aRTK technology, powered by Atlas. This feature allows the P328 to operate with RTK accuracies when RTK corrections fail. If the P328 is Atlas-subscribed, it will continue to operate at the subscribed service level until RTK is restored.

The P328 can be used for land or marine survey, machine control, and any application where high-accuracy positioning is required. Hemisphere GNSS is showcasing the Eclipse P328 OEM positioning board at INTERGEO taking place in Hamburg, Germany, 11-13 October, in hall A1, stand F1.013.