Protempis Launches Dual-Band L1/L5 Anti-Jam GNSS Receivers - Expanding Its Precision Time Synchronization Portfolio

The ICM 720 GNSS timing module, Bullet 720 antenna, and Acutime 720 GNSS Smart Antenna provide unparalleled stability, low jitter pulse per second (PPS), and nanosecond accuracy to meet the stringent performance, anti-jamming, and anti-tampering needs of network devices, data centers, and 4G/5G RAN Systems.

SAN JOSE, Calif., April 25, 2023 (Newswire.com) - Protempis (formerly Trimble's Time and Frequency Division) introduced today new additions to its precision time and frequency portfolio to address the timing and synchronization needs of next-generation networks. Infrastructure equipment suppliers, system integrators and network operators can improve their network robustness by integrating Protempis' highly accurate synchronization capabilities into their network devices.

Protempis' dual frequency technology provides real time ionospheric corrections resulting in <5 nanosecond timing stability; multipath mitigation, anti-jamming, and anti-spoofing capabilities; secure boot anti-tampering, and frequency outputs. Powered by Protempis' Smart GNSS Assurance™ anti-jamming and multi-path mitigation technology, these timing devices offer protection against jamming and hacking of signals.

The 5G market requires more stringent and better synchronization, especially in urban environments. Using Protempis' high anti-jam and anti-spoof dual frequency GNSS receivers is a way to meet the system level PRTC-B requirements and incorporate ever increasing precision into GNSS timing.

"With the integration of secure boot features and dual-band capabilities, our 720 family of products offer performance, integrity and protection against erroneous signals enabling network operators to achieve network optimization and optimized performance in challenging environments," said Karen Guldan, President, Protempis.

Integrators who use Protempis' new dual frequency receivers benefit from the proven performance of L1 signal frequency technology but now can benefit from the advantages of the more modern L5 signal, minimizing the effects of the atmosphere on GNSS propagation, higher transmission power, wider bandwidth, and lower bit error rates. All of this results in better and more robust performance.

The ICM 720 module is a 19mm x 19mm surface-mount embedded board designed to be integrated into a network device and outputs a precise PPS and 10MHz output.

The Acutime 720 is a self-contained GNSS receiver and antenna used to synchronize network transmitters and servers. Its design provides ease of installation, integration, and maintenance. Its proven ruggedness is highlighted by its extremely high MTBF and reliable "always on" deployment scenario.

The Bullet 720 Dual Frequency Antenna is designed to work with any L1/L5 GNSS receiver. Pairing the Protempis 720 dual frequency receivers with the Bullet 720 creates an optimal L1/L5 solution for applications that require robust, accurate, and stable GNSS performance. The Bullet 720 is available in low and high gain versions, a wide input power range (2.7 - 9v), with sophisticated anti-jam protections and filtering, and flexible mounting installation hardware.

The ICM720 module, Bullet 720 antenna, and Acutime 720 Smart antenna dual-band timing products are available for shipment.

About Protempis

Backed by more than 40 years of GNSS experience and innovation, Protempis provides time and synchronization solutions for communication systems, data networks, utilities, broadcast, and other critical infrastructure. Protempis GNSS receivers provide the precision time and frequency for the world's largest communications and computer networking companies. Protempis offers time and frequency products to 4G/5G wireless, broadband, and digital broadcast networks. With a rich heritage in GNSS experience, Protempis takes GNSS receivers, disciplined clocks, and packet-timing products to higher levels of integration and performance, providing superior technology, quality, and cost benefit to customers. For more information, visit: protempis.com.

Source: Protempis, LLC

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