



ACUTIME GOLD

KEY FEATURES

- Stratum 1 time source
- Network synchronization
- Timing pulse synchronized to within 15 nanoseconds (one sigma) of GPS/UTC
- Operating temp -40 °C to +85 °C
- Waterproof and corrosion resistant housing
- RoHS compliant (Pb free)



The Acutime Gold is the premier time source for synchronization of wireless networks.

GPS SMART ANTENNA FOR PRECISE TIMING AND SYNCHRONIZATION

The Trimble® Acutime™ Gold GPS smart antenna marks the integration of the latest GPS technology into a rugged self-contained unit that enables easy integration into any system. The Acutime Gold is a pipe thread-mounted GPS receiver and antenna in a single environmentally sealed enclosure.

The Acutime Gold GPS smart antenna design continues the Trimble line of GPS smart antennas, which have been in production since 1991. This GPS smart antenna is the perfect solution for precise timing and network synchronization needs, including broadband wireless applications. It provides a cost-effective and independent timing source (within the firewall) for any application, such as fault detection systems and synchronization of wireless networks.

Once power is applied, the Acutime Gold smart antenna automatically tracks satellites and surveys its position to within meters. It then switches to overdetermined time mode and generates a pulse-per-second (PPS) output synchronized to UTC within 15 nanoseconds (one sigma), outputting

a time tag for each pulse. The Acutime Gold GPS smart antenna's T-RAIM (Time-Receiver Autonomous Integrity Monitor) algorithm ensures PPS integrity.

Designed for long-term reliability, the Acutime Gold GPS smart antenna is corrosion-resistant and waterproof, and has a rounded top that facilitates run-off from the elements.

Physical Interface

The RS-422 interface is ideal for long cable runs required by buildings or towers. Standard cables are available in lengths up to 400 feet. Custom lengths up to 1800 feet may be ordered.

Getting Started

The Acutime Gold Starter Kit makes it easy to evaluate the exceptional performance of this GPS smart antenna and integrate state-of-the-art technology into your system. The Starter Kit includes the Acutime Gold GPS smart antenna (RS-422), a 100' interface cable, user guide, RS-422 to USB converter, and a Microsoft® Windows® software tool for monitoring and communication.

