

» GPS6000-DEC

HIGH ACCURACY TIMING FOR YOUR TIME SERVER



KEY BENEFITS

High accuracy remote time synchronisation for your time server

Reliable performance, even in weak signal and hostile RF environments

30 nsec timing accuracy

Multi-constellation support (GPS/GLONASS/Galileo)

Simple installation into your data centre using existing cat 5 structured cabling

Programmable cable delay compensation

The GPS6000-DEC Remote Time Decoder accurately synchronises your time server with international atomic standards.

ACCURATE TIMING

The GPS6000-DEC provides highly accurate time data. With 32 satellite parallel tracking and class-leading high performance design, the GNSS decoder supplies time data accurate to within 30 nsec of UTC. The user programmable cable delay compensation ensures timing accuracy is maintained, even over long cable runs.

RELIABLE PERFORMANCE

The system has been engineered to ensure reliable performance. The high sensitivity decoder allows for operation in the most demanding weak signal and hostile RF environments. The GPS6000-DEC fully integrates with your time server, providing real time diagnostics and active antenna monitoring. Advanced anti-jam technology and multi-constellation support further increase system reliability.

The GPS6000-DEC is compatible with a range of GNSS antenna, lightning arrester and coaxial cabling options (available separately).

SIMPLE INSTALLATION

The GPS6000-DEC has been purpose designed to allow cost saving installation into your data centre, connecting to your time server via existing cat 5 (or similar) structured cabling.

Timing performance:

Synchronised accuracy: 30 nsec (1 sigma)

RF Performance:

GNSS engine: Anti-jam capable, multi-constellation,
32 satellite parallel tracking

Minimum acquisition sensitivity: -148dBm (cold start)

Minimum tracking sensitivity: -160dBm

Mechanical & Electrical Specifications:

Enclosure: 85 x 65 x 30mm (3.35" x 2.56" x 1.18")
aluminium enclosure with wall mount brackets

Weight: 0.2 kg

RF input: SMA (female)

Cable delay compensation: User programmable

Status monitoring: Fully integrated diagnostic system with active antenna monitoring. Multi-colour status LED

Environmental Specifications:

Operating temperature: 0 to 50°C

Relative humidity: 0% - 95%, noncondensing

Warranty & Support:

Warranty: 5 years

Support: Free-of-charge lifetime technical support

Standards compliance:

Safety requirements: BS EN 62368-1: 2024

Emission requirements: BS EN 55032: 2015 +A1:2020

Immunity requirements: BS EN 55035: 2017 +A11:2020

Radio equipment directive: EN 303 413: V1.2.1 (2021-04)

CE / UKCA: Meets all applicable directives

RoHS: RoHS compliant