

GPS4000 Time Receiver

Providing high accuracy GPS precision timing with anti-jam capability



The **GPS4000** is the ideal solution for high accuracy GPS timing in the most demanding applications. Incorporating advanced anti-jam technology and cable delay compensation, the GPS4000 provides you with precision timing over long cable runs and in noisy or hostile RF environments.

Key Benefits:

- High accuracy GPS timing system with anti-jam technology
- 50 nsec PPS accuracy with cable delay compensation
- Surface mounting antenna bracket and decoder enclosure with a choice of cable lengths
- Compatible with MC1000 / MC2000 ntp servers
- Optional lightning arrestor
- 5 year warranty

GPS4000 Model Variations & Options

Part Number

GPS4000-05

GPS4000-15

GPS4000-50

GPS4000-TNC1

GPS4000-TNC15

GPS4000-TNC25

GPS4000-WALL

GPS4000-SPD

Variation / Option

GPS4000 with 8m (25ft) antenna cable and 5m (15ft) output cable

GPS4000 with 8m (25ft) antenna cable and 15m (50ft) output cable

GPS4000 with 8m (25ft) antenna cable and 50m (150ft) output cable

1m (3ft) antenna cable

15m (50ft) antenna cable

25m (80ft) antenna cable

Stainless steel wall mounting antenna bracket

Lightning arrestor / Surge protection device

GPS4000 Technical Specifications

Typical Performance Specifications:

PPS accuracy: 50 nsec RMS

GPS Specifications:

Antenna gain / noise: 30 dB @ 25 °C / 3.3 dB max (25 °C +/-5 °C)

GPS engine: 50 channel GPS L1 C/A

GPS module RF reception sensitivity: -160 dBm (tracking), -160 dBm (reacquisition), -147 dBm (cold start), -156 dBm (hot start)

I/O Connections:

I/O connection: Single 1000 Series communication port for connection to an MC1000 or MC2000 network time server

Mechanical, Electrical & Environmental Specifications:

Antenna dimensions: 77.5 x 66.2 mm (3.05" x 2.61")

Decoder module dimensions: 202 x 80 x 55 mm (7.95" x 3.15" x 2.17") (including removable wall brackets, excluding cable grommet and TNC)

Decoder module enclosure: Light grey polycarbonate body with clear cover.

System weight: 1.5 kg (excluding output cable)

Antenna cable: 8m (25ft) RG58CU TNC to TNC

Output cable: Two pair plus drain 7x32 (24 AWG) stranded cable with 100% foil shield and semi-rigid, sunlight resistant, Polyvinyl Chloride (PVC) jacket.

Operating temperature: -30 to +50 °C

Relative humidity: 0% - 95%, noncondensing

Standards Compliance:

Electrical safety: BS EN 60950-1:2006

Radio disturbance: BS EN 55022:2006 (class B)

Immunity characteristics: BS EN 55024:2003



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World Time Solutions Limited

1st Floor, Barclays House, Gatehouse Way, Aylesbury, Buckinghamshire, HP19 8DB, United Kingdom

Tel: +44 (0) 1296 331 428 - Email: sales@worldtimesolutions.com

www.worldtimesolutions.com