

## TTS-2 (Time Transfer System – 2)

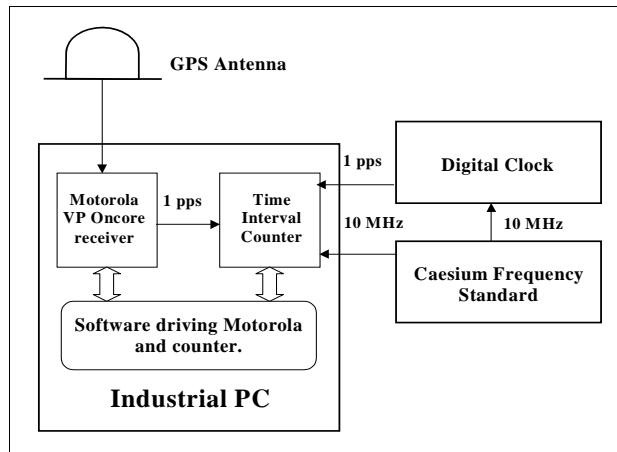


### Technical parameters

- TTS-2 fully conforms to CCTF recommendations for multi-channel GPS time transfer technology common-view method.
- Tracks simultaneously up to eight GPS satellites.
- Single-frequency (L1, 1575.42 MHz).
- C/A code (1.023 MHz chip rate).
- Code carrier aided tracking.
- Time interval resolution of the counter: 500 ps.
- External reference frequency 10 MHz, female BNC connector.
- Local 1 PPS input connector: female BNC.
- Antenna type: active GPS antenna (with temperature stabilisation option).
- Antenna cable length: as ordered, up to 50 m.
- Time transfer data format according to the Technical Directives for Standardisation of GPS Time Receiver Software (specified in Rapport BIPM-93/6, October 1993).
- Power requirements AC 230 V  $\pm$  10%, 45 to 60 Hz or AC 110 V  $\pm$  10%, 55 to 65 Hz.
- The receiver before shipment to a user is differentially calibrated with the uncertainty of a few nanoseconds with respect to the AOS time receiver calibrated by the BIPM.

A one-year guarantee is provided.

On request the TTS-2 can be equipped with a temperature-stabilized chamber for the Motorola VP board, and a temperature stabilized antenna.



Block diagram of the TTS-2 multi-channel GPS time receiver connected to the local reference clock.

## Advantages of TTS-2

- Data format is compatible with previous versions of CCTF CGGTTS data exchange format;
- Provides a low cost, high accuracy solution for time transfer;
- Allows easy update of software and hardware (temperature stabilization of the GPS engine).



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