LL-3760 GPS Timing Receiver

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Front

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ManufacturerLange-Electronic GmbH

Description

The LL-3760 is a very precise GPS Timing Receiver. The unit outputs 10 Mhz and 1 pulse per second (1 pps) synchronized to the Navstar GPS System.

Originally the unit was designed to provide time and frequency to Spirent Pseudolite Simulators GSS6100P (Galileo). Three capabilities to shift the system time independently could be used to build up a test time and to steer the GSS6100(P) simulator.

UTC time scale, based on a receiver that is synchronized to the United States NAVSTAR Global Positioning System (GPS) allows precise time synchronization with an accuracy in the single digit ns range. The United States NAVSTAR Global Positioning System (GPS) is a satellitebased radio-positioning, navigation, and timetransfer system. It was installed by the United States Department of Defense and is operated by the US Naval Observatory.

GPS time Scale started on 6 January 1980 and is autonomous and differs from UTC by the integer number of leap seconds that have occurred since the GPS time scale began. Although timing specification for the GPS system accuracy to UTC is 1 microsecond, the last years the accuracy is in a range of < +/-25ns to UTC(USNO), typically +-2 ns.

Brochures

Key Features:

- Very precise GPS Timing Receiver
- Basic accuracy +- 5 ns with internal DOCXO
- optional Rubidium Standard
- 1 pps and 10 MHz output
- RS232 Time and RS232 Test Interfaces
- Special: programmable shift of the 1 pps and frequency outputs in 25 ps steps, phase locked
- originally designed for the synchronisation of Spirent pseudolites
- Standard 19 inch 2HE equipment cabinet
- 4,3” TFT Display

Options:

- 10MHz Distribution sinusiodal

- 1PPS Distribution

- HQ Time Codes

- IRIG Time Codes (A, B, H, G)

- Different Pulses

- 1 and 5MHz outputs