



TCG5000 Time Code Generator



Description

The TCG5000 accepts various types of reference inputs and generates accurate time codes from the reference input.

Standard Reference Inputs:

- NTP client via RJ45 10/100 Mb Ethernet (dual-port)
- NMEA 0183 via RS232/422 or USB
- NENA format 0,1,8 via RS232/422 or USB
- Internal high-stability TCXO oscillator ± 3 sec./year
- Configuration via USB or EthernetGPS or GPS/GLONASS receiver

Optional Reference Inputs:

- GPS or GPS/GLONASS receiver
- Time codes: IRIG-B0 (DCLS), IRIG-B1 (AM)
- SMPTE 12M, 309M, 24/25/30 fps and 29.97 drop frame
- Internal high-stability OCXO oscillator ± 0.25 sec/year
- Rubidium Oscillator ± 1 mS/year
- Synchronizing pulses: PPS (second), PPM (minute), PPH (hour)
- 10 MHZ Input (CMOS or Sinusoidal)
- VITC input
- IEEE 1588 Precision Time Protocol

Standard Reference Outputs:

- NTP server via RJ45 10/100 Mb Ethernet (dual-port)
- NMEA 0183 via RS232/422 or USB
- NENA format 0,1,8 via RS232/422 or USB
- Kinematics/Truetime serial protocol
- 5V at 100mA Pulse Per Second (PPS)

Optional Reference Outputs:

- Time codes: IRIG-B0 (DCLS), IRIG-B1 (AM)
- SMPTE 12M, 309M, 24/25/30 fps NDF and 29.97 drop frame
- 5V at 100mA Programmable Pulse Output (PPO)
- Optical Fiber LAN
- 10 MHZ Output (Sinusoidal)

- IEEE 1588 Precision Time Protocol server

Other Features:

- 13-Digit display (Date/Time or Day of year/Time)
- Programmable relay closure - one event per day with NO/NC dry contact relay
- Relay alerts loss of sync by default
- WinDiscovery configuration software included
- Fully configurable offsets for time zone and DST
- Telnet/SSH communication
- IPv4/IPv6 compatible
- SNMP with custom MIB

Software

WinDiscover software is supplied for free which enables automatic discovery of NTP clocks attached to a network without having to change the PC's networking configuration.

The TCG5000 can be configured via the Ethernet port of a PC. It supports DHCP/BOOTP for automatic acquisition of network address, nameservers and time server configuration.

Networking parameters such as time zone/daylight saving can also be configured.

The configuration is saved in non-volatile memory and units can be password protected.

Other Specifications:

- Case Size / Weight: 19" 1U height (480 x 132 x 45 mm. Weight: 1.2kg.
- AC Input is 100 – 240 VAC.
- Temperature: 0 to 60 °C

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Full specifications available from www.ptsyst.com. Specifications and features subject to change without notice (240117)