

GMR1000

The GMR1000 is a compact time and frequency generator/server that can reference a variety of timing sources and provide a range of outputs to meet customer needs. The base model includes both NTP client and server functionality compatible within IPv4/IPv6 networks and offering Secure-Socket-Host (SSH) encryption for secure communications. Properly configured and using standard NTP polling rates, the device can support and synchronize hundreds of thousands of NTP clients.

FEATURES

Standard Inputs/Reference Sources

- > NTP client via RJ45 10/100 Mb Ethernet
- > 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 Ethernet

Input Options

- > GPS or GPS/GLONASS receiver
- > Time codes: IRIG-B0 (DCLS), IRIG-B1 (AM), IRIG-A0 (DCLS), IRIG-A1 (AM), IRIG-E0 (DCLS), IRIG-E1 (AM), SMPTE 12M, 309M, 24/25/30 fps and 29.97 drop frame
- > Internal high-stability OCXO oscillator ± 0.25 sec/year
- > VITC input
- > Synchronizing signals: PPS, PPM, PPH
- > IEEE 1588 Precision Time Protocol

Standard Outputs

- > NTP server with 10/100 Mb Ethernet
- > NMEA 0183 via RS232/422 or USB
- > NENA format 0,1,8 via RS232/422 or USB

Output Options

- > Time codes: IRIG-B0 (DCLS), IRIG-B1 (AM), IRIG-A0 (DCLS), IRIG-A1 (AM), IRIG-E0 (DCLS), IRIG-E1 (AM), SMPTE 12M, 309M, 24/25/30 fps and 29.97 drop frame
- > 5V at 20mA Pulse Per Second (PPS)
- > Programmable Pulse Output (PPO)
- > 10MHz sine wave
- > IEEE 1588 Precision Time Protocol



Other Features

- > Internal TCXO maintains time during loss of external sync within ± 3 seconds/year
- > WinDiscovery configuration software included
- > Fully configurable offsets for time zone and DST
- > Programmable relay closure - one event per day with NO/NC dry contact relay
- > Relay alerts loss of sync by default
- > Telnet/SSH communication
- > SNMP with custom MIB
- > IPv4/IPv6 compatible

Other Options

- > DB9 breakout adapter
- > Six-digit display
- > DIN rail mount available

Power, Physical Dimensions, Operating Parameters

- > DC input (9-28 VDC)
- > Includes external 24VDC wall mount power supply with locking DC plug
- > Size: 6.44 x 4.06 x 1.44 in (16.35 x 10.32 x 3.65 cm), Weight: 16 oz (453.6 g)
- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Compliance

- > FCC, ROHS, CE Marked, ANSI

Rack mountable with RM4



MASTERLOCK, INC.

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