The GMR5000 is a 1U rack mount 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 with 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 thousands of simultaneous NTP clients.

FEATURES

Standard 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 Ethernet

Input Options
- 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
- High-Stability Oscillator Options:
  - 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
- Optical Fiber LAN
- IEEE 1588 Precision Time Protocol

Power, Physical Dimensions, Operating Parameters
- Universal AC input
- Size: 18.9w x 1.750h x 5.174d in (48w x 4.445h x 13.14d cm)
- Weight: 2.6 lb (1.2 kg)
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)
- Available with 1RU rack mount

Standard 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
- Kinemetrics/Truetime serial protocol
- Programmable Pulse Output (PPO)
- Optical Fiber LAN
- 10 MHZ Output (Sinusoidal)
- IEEE 1588 Precision Time Protocol

Output Options
- 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

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

Compliance
- FCC, CE Marked, ROHS, ANSI

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