Masterclock®

Multi-Functional Master Clocks

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) encrpyption 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 $\pm$ 3 sec./year
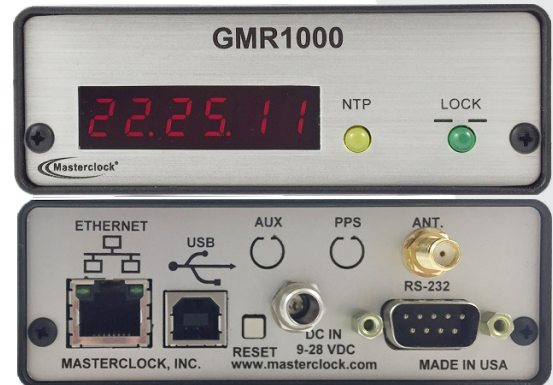> Configuration via USB or Ethernet

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
> Internal high-stability OCXO oscillator $\pm$ 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), SMPTE 12M, 309M, 24/25/30 fps NDF
> 5V at 20mA Pulse Per Second (PPS)
> Programmable Pulse Output (PPO)
> 10MHz sine wave
> IEEE 1588 Precision Time Protocol

Other Features
> Internal TXCO maintains time during loss of external sync within $\pm$ 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 12 VDC 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 an RM4