

PTP GrandMaster Clock Module

For use with Time & Frequency Solutions' M211 Modular Timing System. The PTP Grandmaster Clock Module generates and distributes precisely synchronised time across Ethernet networks.

Features

- Uses Precision Time Protocol (PTP) to IEEE-1588 v2
- Distributes time to remote PTP clients and slaves over a network
- Advanced hardware-generated timestamps
- GPS input source
- Provides ± 100 nanosecond timing accuracy (locked to GPS)
- M211 Internal disciplined oscillator provides stability if input source interrupted

Precision Time Protocol (PTP), described in the IEEE 1588-2008 version 2 standard, allows for extremely precise synchronization of networks.

This provides significant improvements on the accuracy of network-distributed time over legacy Network Time Protocol (NTP) servers.

An absolute timing accuracy of better than 100 nanoseconds to UTC can be achieved using this protocol as it uses hardware-generated timestamps.

The PTP Grandmaster Clock Module is available as an option on the M210 & M211 Timing Systems.

PTP GrandMaster Clock Module Specifications

PTP Interface Standard

IEEE 1588-2008 version 2 Multicast & Unicast

Input Source

GPS Antenna

Network Connections

1/ RJ45 10/100BASE-T: PTP to IEEE 1588-2008 v2
2/ RJ45 10/100BASE-T: Web interface for configuration and monitoring
SNMP

Environment (Operation & Storage)

Temperature : 0°C to +40°C
Humidity : Up to 95% RH (non-condensing)
EMC : CE Compliant

As we are always seeking to improve our products, the information in this document only provides general indications of product capability, suitability and performance, none of which shall form any part of any contract.

V 1.0

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