Monaghan Engineering



PME GPS 0100

The PME GPS 0100 clock operates as an IEEE 1588 Precision Time Protocol Grand Master or Slave Clock. When a GPS receiver is connected, the module automatically switches to Master Clock mode and broadcasts time synchronization messages over the network. When a GPS signal is not available the module switches to Slave Clock mode and synchronizes with a master clock on the network. The module will track up to 5 master clocks and select the one with the most accurate time. The PME GPS 0100 also operates as an NTP Time Server. The module has one RS-485 and one 24VDC time output. Each output is individually configurable for IRIG-B or DCF-77 output. The module also includes an embedded web server for monitoring and configuration.

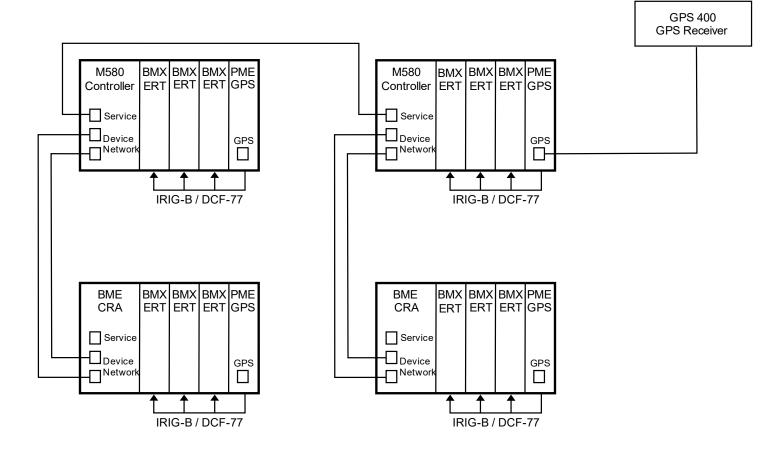
Features:	NTP and PTP Time Server GPS Time Synchronization IRIG-B and DCF-77 Time Code Generator for BMX ERT 1604
Protocols:	IEEE 1588 Precision Time Protocol Network Time Protocol HTTP Embedded Web Server
Synchronization:	GPS or IEEE 1588 Precision Time Protocol
Accuracy:	+/- 1 uS
Outputs:	1 each -5 Volt RS-485 1 each -24 Volt

Output Time Codes: IRIG-B or DCF-77

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PME GPS 0100 Network Configuration



- GPS receiver provides accurate time and position information to PME GPS 0100 Master Clock module.
- The PME GPS 0100 Master Clock module provides the following services:
 - 1. PTP Master Clock.
 - 2. NTP Time Server.
 - 3. IRIG-B and DCF-77 Time Code Signals.
 - 4. Time and position information to the M580 Controller.
- All PME GPS 0100 modules that are not connected to a GPS receiver will synchronize with the Master Clock and operate as PTP Slave Clocks. These PME GPS 0100 modules will provide the following services:
 - 1. NTP Time Server.
 - 2. IRIG-B and DCF-77 Time Code Signals.
 - 3. Time information to the M580 Controller.