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Find the *Emerson / Heurikon PM/E1* at our website: *Click HERE*

PM/T1 and PM/E1 Technical Specs

PowerQUICC Architecture

- Processor Configuration
  - MPC860MH: Up to 2 channelized T1 or E1 spans
- Dual processor architecture
  - RISC-based Communications Processor Module handles communication commands
  - 32-bit Embedded PowerPC core with MMU and 4 Kbyte data and instruction caches
- 40 MHz clock
- On-chip timers (configurable as four 16-bit timers or two 32-bit timers)
- 16 serial DMA channels

Memory Configurations

- 4, 8, 16 MBytes DRAM
- PROM: 512 KBytes capacity
- NVRAM
  - 2 KBytes capacity
  - Storage for user-defined parameters such as baud rates, software and hardware revision levels, and configuration information
  - Provides field upgradeable non-volatile program storage

Configuration Options

- Choice of T1 or E1
- Choice of front panel or P14 I/O for T1/E1
- 1 EIA-422/2 EIA-232/1 E1 span configurations available
- 4 or 8 MBytes memory

Serial Communication Ports

- Up to 1 full T1 or E1 span or 2 fractional T1 or E1 spans
- Configuration available with 1 EIA-422 port and 1 E1 span featuring rear I/O
- Surge protection for T1/E1 ports with front panel I/O
- Supports T1/CEPT and other user-defined protocols (customer provided software may be required)
- Automatically performs efficient packing
- I/O routed out PMC P14 connector or front panel for T1 and E1 interfaces
- Two serial EIA-232 ports Provided for console/debug capability using the P2 connector
- I/O routed through PMC P14 connector

PMC Architecture

- Standard single-width 32-bit PMC module conforms to IEEE P1386.1
- PCI 2.1-compliant interface

Software Support

- Board support package for VxWorks real-time operating system
- HKmon monitor software
- Future pSOS Board Support Package
- SS-7 Message Transfer Part (MTP) levels 1 & 2
- HDLC LAPB/LAPD
- HDLC LAPF (Q.922)

Physical Characteristics

- Board size: 149.0 mm x 74.0 mm (5.87 in. x 2.91 in.)
- Baseboard and module fit in a single 0.8 in. VMEbus slot
- Power requirements:
  - +5VDC @ 1.4 A maximum
  - +12VDC @ 0.2A maximum (RS422 option)
  - -12VDC @ 0.2A maximum (RS422 option)
- Storage Temperature: -25C to 70C
- Operating range: 0-55C, 95% relative humidity (non-condensing)

Target Applications

- SS7 Link
- T1/E1 interfaces for systems such as
  - Signal Switching Point (SSP)
  - Intelligent Peripheral (IP)
  - Wide Area Data Communication
  - Base Station Controller (BSC)
  - Broadband Transceiver Station (BTS)

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