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Find the *Emerson / Motorola / Force Computers SYS68K CPU-40B/4-01* at our website: *Click HERE*

FORCE 680x0 VME/CPU-40

The SYS68K/CPU-40 is a high performance CPU-board based on the 68040 microprocesso and the VMEbus. The boards incorporate a modular l/O subsystem which provides a high degree of flexibility for a wide variety of applications. The CPU-40 can be used with or without an I/O subsystem module (EAGLE module). The CPU-40 is available with 16 or 32 Mbyte shared DRAM options, with byte parity.

The EAGLE modules are installed on the CPU-40 and the CPU-41 via FLXibus (FORCE Local eXpansion interface). FLXi provides a full 32-bit interface between the base board and the EAGLE module l/O subsystem and supports a broad range of powerful l/O options.

Features of the SYS68K/CPU-40 and CPU-41

- 68040 microprocessor @ 25.0 MHz
- 16 or 32 Mbyte shared DRAM with byte parity
- Shared SRAM (CPU-41): 4 or 8 Mbyte
- High speed 32-bit DMA controller (FGA-002) for data transfers to/from the shared RAM, the VMEbus and EAGLE modules.
- Two system EPROM sockets.
- One boot EPROM for local booting.
- 128 Kbyte SRAM with on-board battery backup and/or +5V STDBY from VMEbus.
- 128 Kbyte Flash EPROM with on-board programming support.
- FLXi interface for installation of one EAGLE module.
- Four Serial l/O interfaces, configurable as RS232/RS422/RS485, available on the front panel.
- 8-bit parallel interface with 4-bit handshake.
- Real-Time Clock with calendar, on-board battery back-up and/or +5V STDBY from VMEbus.
- Two 24-bit timers with 5-bit prescaler.
- One 8-bit timer.
- Full 32-bit VMEbus master/slave interface.
- Four level VMEbus arbiter.
- VMEbus interrupter (IR 1-7).
- VMEbus interrupt handler (IH 1-7).

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