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http://www.dy4.com/p&s/product/7-3-2-7.html Go
2 captures 2 Feb 97 - 12 Jun 97
FEB JUN JUL
12
1996 1997 1998
Close Help

RISC Single Board Computers (SBCs)


DMV-171 PowerPC 603e SBC

DY 4 offers a choice of Pentium™ and PowerPC 603e high-performance RISC SBCs. All of our cards are designed to operate in high-shock, high-vibration, extended-temperature, air- or conduction-cooled military environments.

The Pentium based SVME/DMV-190 Single Board Computer is the most recent addition to the DY 4 VMEbus product family. The 190 provides all of the features of a PC/AT motherboard with PCI local bus, along with built-in Ethernet, PMC (PCI Mezzanine Card) interface, SCSI-2 and VME interface. The 190 opens the VME world to COTS software users allowing them to target their Windows and DOS applications into the harsh environments. Operating systems supported by the 190 include MS DOS, Windows 95, Windows NT and QNX.

For PowerPC users, DY 4 has the latest generation PowerPC 603e-based SVME/DMV-176/177 Single Board Computers. Both cards feature fast 64-bit Flash for direct program execution at DRAM speeds. The 176 has up to 12MB of SRAM for high-performance applications. The 177 is available with up to 64MB of error-corrected (EDAC) DRAM for larger applications. Both boards offer flexible memory modules, allowing future Pre-Planned Product improvements (P^3I) growth options.

Also based on the PowerPC 603e, DY 4's previous generation SVME/DMV-170/171 provide a range of sub-systems on card, including ethernet, SCSI and two EIA-423 serial channels. The SVME/DMV-170 provides up to 12 MB SRAM, and the SVME/DMV-171 provides up to 64 MB DRAM.

The MAXPack interface is available on the both the 176/177 and the 170/171 cards, allowing the customer to add extra I/O such as a second Ethernet port, more serial channels or twin 1553B interfaces .

Go to: Pentium SVME/DMV-190, PowerPC 178, 176, 177, 170, 171, and MAXPack Mezzanine Modules 651, 654.

Pentium

SVME/DMV-190 Pentium SBC with PCI and PMC features

- 120 or 133 MHz Pentium Processor
- PCI local bus with PCI Mezzanine Card (PMC) interface
- 256 KB of level 2 cache memory
- 1 MB of Flash EPROM
- Available with up to 64 MB of DRAM
- Two serial channels (one EIA-232 and one EIA-232/422/484)
- IBM PC-compatible bi-directional Parallel interface
- EIDE interface for mass data storage
- SVGA video, with display resolution up to 1280x1024 pixels
- 2 MB video RAM
- On-board Fast SCSI-2 interface
- On-board Ethernet with AUI interface
- Tundra advanced VME interface chip (Universe)
- Real-time clock with battery backup
- Supports Windows NT, Windows '95, DOS, QNX
- Single-slot design @ 0.8" pitch per IEEE 1101.2
- Optional levels of ruggedization

PowerPC

SVME/DMV-178 Features

- PowerPC 604e or 603eV RISC CPU at 200 MHz+ *
- 64 Mbytes DRAM with EDAC *
- 512 Kbytes of L2 cache
- 8 Mbytes of 64-bit wide Flash EPROM *
- 2 Mbytes of byte-wide boot Flash EPROM
- 8 Kbytes of Autostore NOVRAM
- Two IEEE P1386 PCI/PMC module sites for flexible I/O expansion
- On-board 10/100 Mbit Ethernet port with 10/100BaseT (twisted pair) interface
- On-board fast SCSI-2 interface
- IDE Floppy disk and 10 bit TTL parallel Centronics interface
- Four (4) sync/async serial ports
- Two (2) EIA-423, two (2) EIA-422
- Three (3) cascadable 16-bit counter/timers, Tick and watchdog timers, Real-time clock
- VME64x (Extensions) features
- Advanced VME Interface Chip (Universe)
  - A32:D32 VMEbus interface with A64:D64 MBLT support per ANSI/VITA 1-1994, VME64
  - FIFO buffer, Bus Isolation mode (BI-mode®), Auto-ID and Auto-SYSCON, System controller functions
  - Built-In-Test (BIT) features
- PowerPC JTAG/COP™ Interface
- Foundation firmware including:
  - Card Level Diagnostics, Monitor, Card Support Services, Execution Sequencer and a "closed chassis" Non-Volatile Memory Programmer
- VxWorks and Lynx BSPs and drivers
- Conduction cooled per IEEE 1101.2 (0.8")
- Optional levels of ruggedization

***** Contact DY 4 for higher CPU speed and larger memory availability.

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- Up to 12 MB SRAM
- 8 MB 64-bit wide application Flash EPROM
- 2 MB 16-bit wide boot Flash EPROM
- 256 KB EEPROM
- 512 byte serial EEPROM
- Support for one MAXPack module, providing flexible I/O expansion
- On-board Ethernet with AUI interface
- On-board SCSI 2 interface
- Four 16-bit counter/timers
- Two EIA-423 compatible serial channels
- Two EIA-422 compatible serial channels (one with 1MB/s chained DMA)
- Real-Time Calendar Clock (RTCC)
- Tick and watchdog timers
- Advanced VME64 interface
- Built-In Test (BIT)
- P0 or front-panel JTAG/COP Interface allows ICE-like debug port (front panel on SVME only)
- Foundation firmware
- Single-slot design @ 0.8" pitch per IEEE 1101.2
- Optional levels of ruggedization

SVME/DMV-177 PowerPC 603e SBC with MAXPack Interface features

- PowerPC 603e RISC CPU at 100 MHz
- Up to 64 MB DRAM with EDAC (optional)
- 8 MB 64-bit wide application Flash EPROM
- 2 MB 16-bit wide boot Flash EPROM
- 256 KB EEPROM
- 512 byte serial EEPROM
- Support for one MAXPack module, providing flexible I/O expansion
- On-board Ethernet with AUI
- On-board SCSI 2 interface
- Four 16-bit counter/timers
- Two EIA-423 compatible serial channels
- Two EIA-422 compatible serial channels (one with 1MB/s chained DMA)
- Real-Time Calendar Clock (RTCC)
- Tick and watchdog timers
- Advanced VME64 interface
- Built-In Test (BIT)
- P0 or front-panel JTAG/COP Interface allows ICE-like debug port (front panel on SVME only)
- Foundation firmware
- Single-slot design @ 0.8" pitch per IEEE 1101.2
- Optional levels of ruggedization

SVME-170 PowerPC 603e SBC with MAXPack Interface features

- PowerPC 603e RISC CPU at 80 MHz
- Up to 12 MBytes SRAM
- Up to 4 MBytes Flash™ EPROM or up to 1 MByte EEPROM
- 512 byte serial EEPROM
- Off-card battery back-up for SRAM
- Support for one MAXPack module, providing flexible I/O expansion
- On-board Ethernet™ with AUI interface
- On-board SCSI 2 interface
- Four 16-bit counter/timers
- Two EIA-423-compatible serial channels
- Real-Time Calendar Clock (RTCC)
- Tick and watchdog timers
- Advanced VME64 interface
- Built-In Test (BIT)
- Front-panel JTAG/COP™ Interface allows ICE-like debug port (SVME only)
- Foundation firmware
- Single-slot design @ 0.8" pitch per IEEE 1101.2
- Optional levels of ruggedization

SVME/DMV-171 PowerPC 603e SBC with MAXPack Interface features

- PowerPC 603e RISC CPU at 80 MHz
- Up to 64 Mbytes DRAM with EDAC (optional)
- Up to 4 Mbytes Flash EPROM or up to 1 Mbyte EEPROM
- 512 byte serial EEPROM
- Support for one MAXPack module, providing flexible I/O expansion
- On-board Ethernet with AUI interface (Level 000 and 100 only)
- On-board SCSI 2 interface
- Four 16-bit counter/timers
- Two EIA-423-compatible serial channels
- Real-Time Clock (RTC)
- Tick and watchdog timers

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- Foundation firmware
- Single-slot design @ 0.8" pitch per IEEE 1101.2
- Optional levels of ruggedization

MAXPack Mezzanine Modules

MAX-651 MIL-STD-1553B Serial MAXPack features

- Mezzanine board supporting MAXPack slave interface
- Single MIL-STD-1553B dual-redundant A/B channel interface
- 1553B interface software package available supporting BC, RT and MT modes
- Dual serial channels EIA-232 or EIA-422
- Vectored interrupt reduces CPU overhead
- Software compatible with MAX-654
- Air cooled and conduction cooled for MIL-E-5400, MIL-E-4158 and MIL-STD-2036 applications
- Optional U.S. Army utility bus interface
- Optional levels of ruggedization

MAX-654 Dual MIL-STD-1553B Interface MAXPack features

- Mezzanine board supporting MAXPack slave interface
- Two MIL-STD-1553B dual-redundant interfaces (Single 1553B version available)
- 61580 Advanced Communication Engine (ACE) 1553B interface devices
- Support for transformer-coupled and direct (resister) coupled interfaces
- BC, RT, MT modes
- Support for 1553A, 1553B Notice 2 and STANAG 3838
- Each 61580 has 8K bytes dual-port RAM
- 1553B interface software source code package available supporting BC, RT and MT modes
- Air cooled and conduction cooled for MIL-E-5400, MIL-E-4158 and MIL-STD-2036 applications
- Optional levels of ruggedization

Full product specifications can be found in our product catalog, which you can obtain by making a literature request from Lisa Hall at (613) 599-9199, extension 242, or by E-mailing your request to sales@dy4.com

Call, E-mail or visit us to find out how we can help you.

Back

Home

Product Overview | Ruggedization | A/D & D/A | I/O | LAN Ethernet | Memory | Chassis | RISC SBCs | 68K SBCs | MIL-STD-1553B | Graphics | DSP

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