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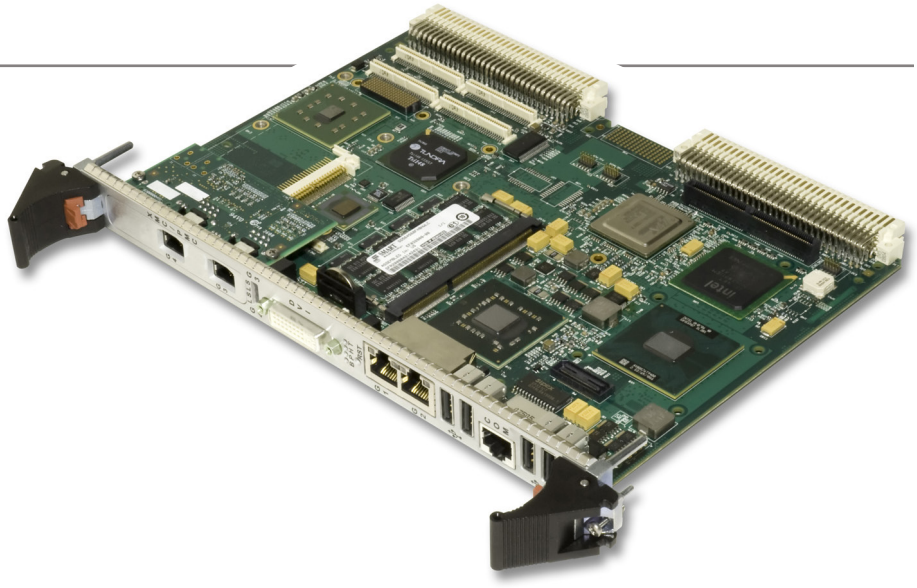
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Find the *Abaco Systems V7875* at our website: ***Click HERE***



V7875

Intel® Core™ 2 Duo Processor VME Single Board Computer

The V7875 is a VMEbus single board computer from Abaco Systems offering the Intel Core 2 Duo T9400 processor, up to 8 GByte DDR3 SDRAM, and also features a very rich I/O set, making this a very flexible addition to our expansive line of VME SBCs. I/O options include dual Gigabit Ethernet, two SATA interfaces, four USB 2.0 ports, keyboard/mouse/DVI-I on the front panel, as well as a PCI-X capable XMC/PMC site.

The V7875 provides further customer defined I/O capabilities with the board-to-board connector for the EXP237 XMC/PMC expansion board from Abaco Systems, which gives customers three additional PCI-X XMC/PMC expansion sites to utilize.

A unique feature of the V7875 is the filler module that fits in the on-board PMC/XMC site. The inexpensive module fills the PMC bezel area when a PMC is not used and provides access to additional on-board I/O. The module adds connectivity on the front panel for two Gigabit Ethernet ports (only when VITA 41 is not available).

FEATURES:

- Intel Core 2 Duo T9400 processor
- 6 MByte L2 cache
- Up to 8 GByte DDR3 SDRAM
- 1067 MHz system bus
- ANSI/VITA 1.5-2003 (2eSST, up to 320 MByte/s)
- Two RS232/422 serial ports
- Single PCI-X XMC/PMC expansion site (VITA 42.3 compliant)
- Two Gigabit Ethernet on the front panel
- Optional VITA 41.3
- Six USB 2.0 ports
- Board-to-board connection for EXP237 XMC/PMC expansion board
- Available for benign environment

abaco SYSTEMS

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V7875 *Intel® Core™ 2 Duo Processor VME Single Board Computer*

Specifications

Processor
- Intel Core 2 Duo T9400 Processor @ 2.53 GHz
- 6 MByte L2 cache
- 1067 MHz system bus

SDRAM
- Maximum memory configuration of 8 GByte DDR3 SDRAM
- 1066 MHz memory bus (contact factory for higher configurations)

Compact Flash
- CompactFlash up to 16 GByte accessible through secondary IDE port
- CompactFlash may be configured as the boot device through the BIOS boot device set-up

BIOS
- The V7875 System BIOS and Video BIOS are provided in reprogrammable flash memory.

Gigabit Ethernet
- Dual Ethernet controllers provide four Gigabit Ethernet channels
- Four to front or two rear and two front with optional VITA 41.3 (VXS)

USB Ports
- Six USB 2.0 ports: two to rear I/O via P2, and four to front panel
- Supported USB features include: isochronous data transfers, asynchronous messaging, self-identification and configuration of peripherals, and dynamic (hot) attachment

Front Panel Options
- VME Standard
- 1101.10 front panel

VMEbus Backplane Interface
- The Tundra Tsi 148 enables ANSI/VITA 1.5-2003 (2eSST) protocol providing 320 MB/s along the full length of a 21-slot backplane. Performance is increased in the following ways:
  - 8x faster than the 40 MB/s transfer rate of VME64
  - Tsi148 VME-to-PCI/X bridge provides a 4x increase in useable bus bandwidth over existing solutionss
  - Broadcast Mode support for sending data to multiple cards at one time

Serial Ports
- Two RS232/422 serial ports: one to rear via P2, and one to front panel
- Ports feature independent 16-byte FIFO supporting baud rates up to 115 Kbaud

Video
- DVI-I (analog and digital) on the front panel
- Analog resolution up to QVGA

Filler Module
- Fits in the on-board PMC/XMC site providing additional front panel I/O:
  - Two Gigabit Ethernet ports (only when VITA 41 is not available)

Serial ATA
- Two serial ATA interfaces to rear via P2
- 1.5 GByte/s (150 MByte/s)

PMC Extension Slot
- One 133 MHz PCI-X XMC/PMC site (VITA 42.3 compliant)
- 46-pin P2 user I/O per VITA35, P4V2-46dz
- Add 3 x PCI-X XMC/PMC sites via the board-to-board connector to the EXP237 XMC/PMC carrier board

Programmable Timers
- Two 16-bit timers and two 32-bit timers
- Completely software programmable and can generate PCI bus interrupts

Watchdog Timer
- Programmable Intervals
- Interrupt and board reset triggers

Nonvolatile SRAM
- 32 KByte of nonvolatile SRAM

Input/Output Chart

I/O	V7875 FP	ACC0603-TM
Serial ports	1	1
USB 2.0	2	2
Gigabit Ethernet	2	
SATA	1	1
DVI-I	1	

Dimensions
- 6U (4HP) single slot Eurocard form factor
- Height: 9.2 in. (233.4mm)
- Depth: 6.3 in. (160mm)
- Thickness: 0.8 in. (20.3mm)

Power Requirements
- +5 VDC (+5/-2.5 percent)
- +12 VDC (±5 percent), 0 mA
- -12 VDC (±5 percent), 0 mA

Note: Does not include PMC site for power requirements

- Power Consumption (Watts)

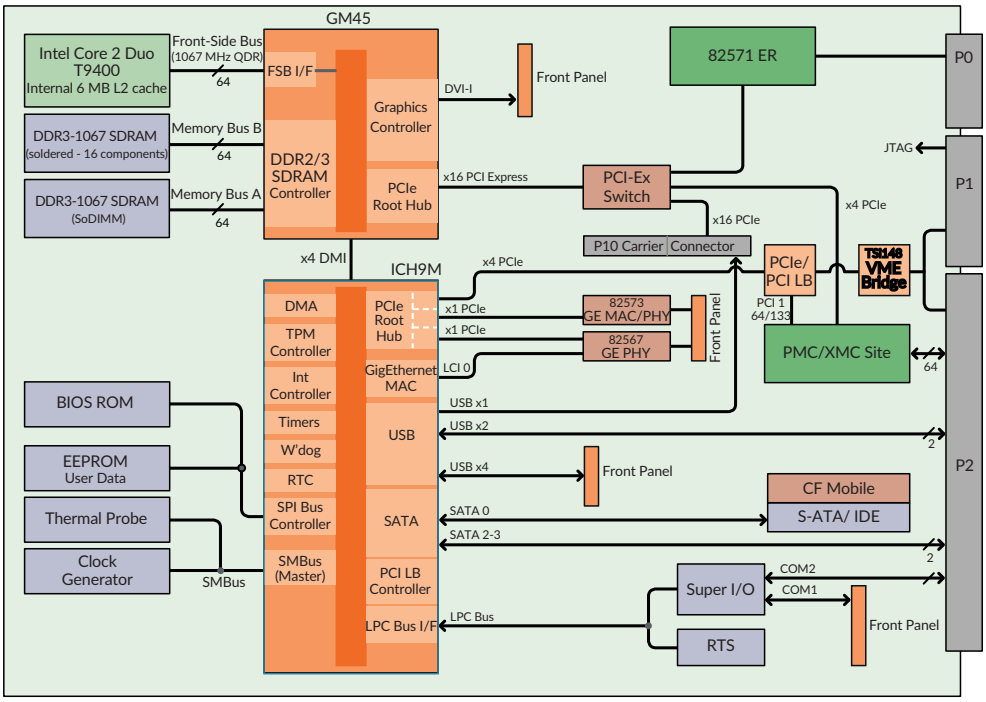
	Idle	Max Sustained
Intel Core 2 Duo @ 2.53 GHZ	35	55

Airflow
- Forced air cooling required
- 350 LFM minimum, measured at the top (outlet) of the unit

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Block diagram



Environmental

Cooling Method	Convection
Conformal Coating	Optional
High/Low Temperature	0° to 55° C
Storage Temperature	-50° to 100° C
Shock	20 g shock
Random Vibration	5 Hz to 100 Hz PSD increasing at 3 dB/octave 100 Hz to 1000 Hz PSD = 0.04 g2/Hz 1000 Hz to 2000 Hz PSD decreasing at 6 dB/octave
Humidity	Operating: relative humidity 5% to 95%, noncondensing Storage: relative humidity 5% to 95%, noncondensing
Altitude	Operating: 0 – 10,000 ft (3,000m) Storage: 0 – 40,000 ft (12,000m)

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