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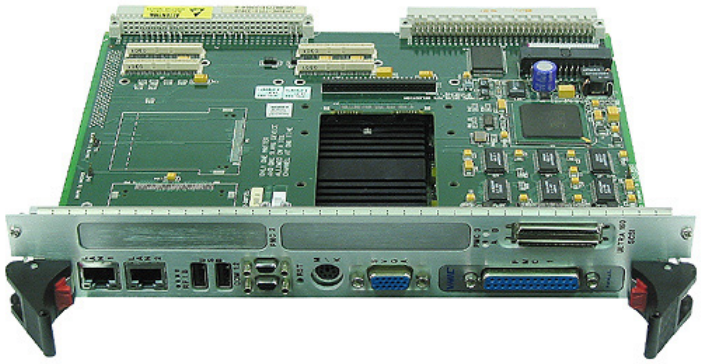
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VMIVME-7751* Specifications

Intel® Pentium® III Processor-Based VME Single Board Computer

Features:

- Up to 1.26 GHz Pentium® III processor with 256 KByte advanced transfer cache
- Up to 512 MByte PC133 SDRAM using a single SODIMM
- Internal AGP SVGA controller with 4 MByte display cache
- 133 MHz system bus via Intel® 815E chipset
- Dual Ethernet controllers supporting 10Base-T and 100Base-TX interfaces
- Optional PCI dual channel Ultra160 SCSI
- Up to three (two with rear I/O support) PMC expansion sites (IEEE-P1386 common mezzanine card standard, 5V)
- Up to 1 GByte bootable flash on secondary IDE (optional)
- Two 16-bit and two 32-bit programmable timers
- 32 KByte of nonvolatile SRAM
- Software-selectable watchdog timer with reset
- Remote Ethernet booting
- Optional IDE hard disk drive
- VME64 modes supported: A32/A24/D32/D16/D08(EO)/MBLT64/BLT32
- VME interrupt handler, interrupter and system controller
- Includes real time endian conversion hardware for little-endian and big-endian data interfacing (patent no. 6,032,212)
- Enhanced bus error handling
- Passive heat sink
- Ultra DMA/100 hard drive and floppy drive controllers (uses VME P2 for external connection to primary channel IDE/floppy)
- Two high performance 16550-compatible serial ports
- Enhanced parallel port with ECP/EPP modes supported
- PS/2-style keyboard and mouse ports on front panel
- Real time clock and miniature speaker included
- Dual front panel universal serial bus (USB) connections
- Operating system support for Windows® XP, Windows 2000, VxWorks®, Solaris® x86, QNX®, LynxOS®, Linux®

abaco SYSTEMS

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VMIVME-7751* Specifications *Intel® Pentium® III Processor-Based VME Single Board Computer*

Ordering Options							
Sept. 13, 2010 800-007751-000 P		A	B	C	D	E	F
VMIVME-7751	–						

A = Processor
2 = 733 MHz Pentium III (Extended Temperature Range: 0 to 60° C)
3 = 733 MHz Pentium III
4 = 866 MHz Pentium III
5 = Reserved
6 = 1 GHz Pentium III (0 to 40° C)
7 = 1.26 GHz Pentium III with 512 KByte Cache
8 = Reserved
B = SDRAM Memory
2 = Reserved
3 = 64 MByte
4 = 128 MByte
5 = 256 MByte
6 = 512 MByte
C = CompactFlash
0 = No CompactFlash
4 = 64 MByte CompactFlash
6 = 128 MByte CompactFlash
8 = Reserved
9 = 256 MByte CompactFlash
G = 512 MByte CompactFlash
H = 1 GByte CompactFlash
D = SCSI Interface
0 = No SCSI
1= Dual Channel Ultra160 SCSI
E = IDE Hard Disk
0 = No Hard Disk
1 = 10 GByte, 1.8-inch Drive (5 GB Went EOL)
3 = 20 GByte, 2.5-inch Drive1
4 = 30 GByte, 2.5-inch Drive1
F = Special Sales Order
0 = VME Standard Front Panel
1 = 1101.10 Front Panel
2 = VME Standard Front Panel with Conformal Coating
3 = 1101.10 Front Panel with Conformal Coating
4 = VME Standard Front Panel with Acrylic Conformal Coating
5 = 1101.10 Front Panel with Acrylic Conformal Coating

Notes

For options E = 3 or 4, the hard disk drive utilizes one of the PMC sites.
All VME single board computer products come standard with a VME specification compliant front panel.

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
Email: support@abaco.com
Web Address: www.abaco.com
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Functional Characteristics

Microprocessor: The VMIVME-7751* brings the Intel Pentium III processor to VME, offering processor speeds up to 1.26 GHz. The Pentium III processor has 32-bit addressing and a 64-bit data bus. Its superscalar architecture allows three instructions to be executed per clock cycle. A dynamic branch prediction unit, separate instruction and data caches, and MMX™ technology also increase the processor's performance. The Pentium III processor also provides 256 KByte (1.26 GHz has 512 KByte) of advanced transfer cache (on-die, full speed level 2 cache) using dual independent bus architecture for high bandwidth and performance. This L2 cache operates at the same clock frequency as the processor, thus improving performance.

DRAM Memory: The VMIVME-7751 accepts one 144-pin SDRAM SODIMM for a maximum memory capacity of 512 MByte. The DRAM is dual ported to the VME.

BIOS: System and video BIOS are provided in reprogrammable flash memory.

Super VGA Controller: High-resolution graphics and multimedia-quality video are supported on the VMIVME-7751 by the built-in 815E chipset AGP graphics adapter. The adapter is complemented by 4 MByte external synchronous DRAM cache with a high-bandwidth 64-bit data interface. Screen resolutions up to 1,600 x 1,200 x 256 colors (single view mode) are supported by the graphics adapter.

PCI Dual Channel Ultra160 SCSI Controller: A PCI Ultra160 SCSI controller is available as an option, which provides two independent differential channels. Both differential channels are capable of operating up to 160 MByte/s. High speed connection is provided through two high-density connectors on the front panel. For applications requiring connection through the backplane, one channel is routed through the user-defined VME and supports single-ended SCSI-2. The backplane connection is compatible with existing installations that use the VMIVME-7696*, -7697*, and -7697A* single board computers (SBCs) and requires the VMIACC-0561* accessory.

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Table 1. Partial List of Display Modes Supported

Resolution	Bits Per Pixel (Frequency in Hz)		
	8-bit Indexed	16-bit	24-bit
320 x 200	70	70	70
320 x 240	70	70	70
352 x 480	70	70	70
352 x 576	70	70	70
400 x 300	70	70	70
512 x 384	70	70	70
640 x 400	70	70	70
640 x 480	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
720 x 480	75, 85	75, 85	75, 85
720 x 576	60, 75, 85	60, 75, 85	60, 75, 85
800 x 600	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1,024 x 768	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1,152 x 864	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1,280 x 720	60, 75, 85	60, 75, 85	60, 75, 85
1,280 x 960	60, 75, 85	60, 75, 85	60, 75, 85
1,280 x 1,024	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1,600 x 900	60, 75, 85	60, 75, 85	
1,600 x 1,200	60, 70, 72, 75		

Ethernet Controller: The VMIVME-7751 supports Ethernet LANs with two Intel Ethernet controllers (one 82559 and the other is internal to Intel's chipset ICH2). 10Base-T and 100Base-TX options are supported via two RJ45 connectors. For increased reliability and convenience, remote LAN booting through either adapter is supported.

Remote Ethernet Booting: The VMIVME-7751 utilizes Lanworks Technologies, Inc.'s BootWare® BIOS. BootWare provides the ability to remotely boot the VMIVME-7751 and provides the following features:

- NetWare (802.1, 802.3, or Eth II), TCP/IP (DHCP or BOOTP), RPL network protocol support
- Unparalleled boot sector virus protection
- Detailed boot configuration screens
- Comprehensive diagnostics
- Optional disabling of local boots
- Dual-boot option lets users select LAN1, LAN2 network, or local booting

Serial Ports: Two 16550-compatible serial ports are featured on the VMIVME-7751 front panel. The serial channel has a 16-byte FIFO to support baud rates up to 115 Kbaud. Requires two micro-DB9 to standard DB9 adapters, Abaco P/N 360-010050-001.

Enhanced Parallel Port: The VMIVME-7751 provides a Centronics-compatible, fully bidirectional parallel port meeting all IEEE-1284 standards (Compatibility, Nibble, EPP, and ECP). The parallel port contains a 16-byte FIFO to allow data rates up to 2 MByte/s in ECP mode. For VMIVME-7751 configurations with Ultra160 SCSI option, the parallel port connector is mounted on a PMC bezel and is installed at the factory in one of the PMC sites. This consumes one of the three PMC sites available on the assembly. If a 2.5-inch IDE hard drive (option E = 3 or 4) is installed, the parallel port connector is installed at the PMC site which was lost to the hard drive. This keeps two PMC sites available for expansion devices. This parallel port bezel may be removed in the field for applications requiring more PMC sites and no parallel port. For VMIVME-7751 configurations without the Ultra160 SCSI option, the parallel port connector is mounted on the front panel and does not occupy any of the available PMC expansion sites.

Keyboard and Mouse Ports: The VMIVME-7751 has a combined PS/2 keyboard and mouse connector. A Y-adapter cable is included.

Flash Memory: The VMIVME-7751 provides two CompactFlash sites accessible through the secondary IDE port. The VMIVME-7751 BIOS includes an option to allow the board to boot from the Flash memory. Contact the factory if front panel accessible CompactFlash is required.

Timers: The VMIVME-7751 provides the user with two 16-bit timers and two 32-bit timers (in addition to system timers). These timers are mapped in I/O space, and are completely software programmable.

Watchdog Timer: The VMIVME-7751 provides a software-programmable watchdog timer. The watchdog timer is enabled under software control. Once the watchdog timer is enabled, software must access the timer within the specified timer period, or a timeout will occur. A user jumper allows the timeout to cause a reset. Independent of the jumper, software can enable the watchdog timeout to cause a nonmaskable interrupt (NMI) or a VME SYSFAIL.

Nonvolatile SRAM: The VMIVME-7751 provides 32 KByte of nonvolatile SRAM. The contents of the SRAM are preserved when +5V power is interrupted or removed from the unit.

PMC Expansion Site: The VMIVME-7751 provides three 5V PCI mezzanine card (PMC) expansion sites conforming to IEEE P1386 common mezzanine card specification. One expansion site is located on the base board and two are located on the expansion board.

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PMC #1 has rear I/O access to J3 pins 1 though 46 on VME P2 rows D and Z. PMC #2 has rear I/O access to all pins, except 49, 55, 57, and 59. Those four pins are brought out to a 2x2 header for access. PMC #3 has no rear I/O access.

Contact Abaco for more information concerning PMC modules and compatibility.

IDE Disk Drive: A location for either 2.5-inch or 1.8-inch IDE hard disk drive on the secondary bus is available as an option. The 2.5-inch hard disk consumes one PMC site, thereby limiting the SBC to two PMC sites. However, the 1.8-inch IDE disk drive physical envelope is such that it does not consume a PMC site, and all three sites are available for user application.

Universal Serial Bus: The VMIVME-7751 provides a front panel dual connection hub host controller for the USB. Supported USB features include isochronous data transfers, asynchronous messaging, self-identification and configuration of peripherals, and dynamic (hot) attachment.

VME Interface: The VMIVME-7751 VME interface is based on the Universe IIB high performance PCI-to-VME interface from Newbridge/Tundra.

System Controller: The VME system controller capabilities allow the board to operate as a slot 1 controller, or it may be disabled when another board is acting as the system controller. The system controller may be programmed to provide the following modes of arbitration:

Round Robin (RRS)
Single Level (SGL)
Priority (PRI)

The system controller provides a SYSCLK driver, IACK* daisy-chain driver, and a VME access timeout timer. The system controller also provides an arbitration timeout if BBSY* is not seen within a specified period after a BGOUT* signal is issued. This period is programmable for 16 or 256µs.

VME Requester: The microprocessor can request and gain control of the bus using any of the VME request lines (BR3* to BR0*) under software control. The requester can be programmed to operate in any of the following modes:

Release-On-Request (ROR)
Release-When-Done (RWD)
VME Capture and Hold (BCAP)

Mailboxes: The VME interface provides four 32-bit mailboxes that are accessible from both the microprocessor and the VME providing interprocessor communication. The mailboxes have the ability to interrupt the microprocessor when accessed by VME.

Interrupt Handler: The interrupt handler monitors, and can be programmed to respond to, any or all VME IRQ* lines. All normal-process VME-related interrupts can be mapped to PCI INTA# or SERR# interrupts. These include:

Mailbox interrupts
VME interrupts
VME interrupter IACK cycle (acknowledgment of VMIVME-7751 VME-issued interrupts)

All error processing VME-related interrupts can be mapped to PCI INTA# or SERR#. Note: PCI SERR# initiates an SBC NMI. These include:

ACFAIL* interrupt
BERR* interrupt
SYSFAIL* interrupt

The interrupt handler has a corresponding STATUS/ID register for each IRQ* interrupt. Once the handler receives an IRQ*, it requests the VME and, once granted, it performs an IACK cycle for that level. Once the IACK cycle is complete and the STATUS/ID is stored in the corresponding ID register, an appropriate interrupt status bit is set in an internal status register and a PCI interrupt is generated. The PCI interrupt can be mapped to PCI INTA# or SERR#.

Interrupter: Interrupts can be issued under software control on any or all of the seven VME interrupt lines (IRQ7* to IRQ1*). A common ID register is associated with all interrupt lines. During the interrupt acknowledge cycle, the interrupter issues the ID to the interrupt handler.

The interrupter can be programmed to generate a PCI INTA# or SERR# interrupt when a VME interrupt handler acknowledges a software-generated VME interrupt.

Byte Swapping: The Intel 80x86 family of processors use little-endian format. To accommodate other VME modules that transfer data in big-endian format such as the 680x0 processor family, the VMIVME-7751 incorporates byte-swapping hardware. This provides independent byte swapping for both the master and slave interfaces. Both master and slave interface byte swapping are under software control.

The VMIVME-7751 supports high throughput DMA transfers of bytes, words and longwords in both master and slave configurations.

If endian conversion is not needed, we offer a special “bypass” mode that can be used to further enhance throughput. (Not available for byte transfers.)

Master Interface: MA32:MBLT32:MBLT64 (A32:A24:A16:D32:D16:D8 (EO):BLT32)

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The VME master interface provides nine separate memory windows into VME resources. Each window has separate configuration registers for mapping PCI transfers to the VME (that is, PCI base address, window size, VME base address, VME access type, VME address/data size, etc.). The maximum/ minimum window sizes for the nine windows are as follows:

Window	Minimum Size	Maximum Size
0, 4	4 KByte	4 GByte
1 to 3, 5 to 7	64 KByte	4 GByte
Special Cycle	64 MByte	64 MByte

Slave Interface: Memory Access SAD032:SD32:SBLT32:SBLT64 (A32:A24:A16:D32:D16:D8 (EO): BLT32)

The VME slave interface provides eight separate memory windows into PCI resources. Each window has separate configuration registers for mapping VME transfers to the PCI bus (that is, VME base address, window size, PCI base address, VME access type, VME address/data size, etc.). The maximum/ minimum window sizes for the eight windows are as follows:

Window	Minimum Size	Maximum Size
0, 4	4 KByte	4 GByte
1 to 3, 5 to 7	64 KByte	4 GByte

In addition, each window can be programmed to operate in coupled or decoupled mode. In decoupled mode, the window utilizes a write-posting FIFO and/or a read prefetching FIFO for increased system performance. In coupled mode, the FIFOs are bypassed and VME transactions are directly coupled to the PCI bus (that is, transfers on VME are not completed until they are completed on the PCI bus).

Enhanced Bus Error Handling: Enhancements over the Universe chip's bus error handling features are provided. A latch and register are provided to allow the SBC to read the VME address that caused the bus error in all modes. The Universe chip's support is limited to decoupled mode. Support for bus cycle timeout and assertion of bus error is provided. The board may be configured to assert bus error upon timeout regardless of its status as system controller. The Universe chip asserts bus error only if it is the system controller. In addition, this board may be configured to assert an interrupt upon bus cycle timeout.

Operating System and Software Support

The VMIVME-7751 provides embedded features beyond PC/AT functionality. These features are supported by Abaco software products aimed at developers who are incorporating Abaco SBCs, I/O boards and workstations into systems. Windows XP/ Windows 2000 and VxWorks are the most common operating systems supported by Abaco software products.

Windows XP/Windows 2000: The IOWorks® software family is a set of software components that can work together or separately to provide a total development environment for any application in a Windows XP/Windows 2000 OS.

VMISFT-9420* VMEbus Access™ for Windows XP/ Windows 2000: The VMEbus Access product is specifically designed for accessing the advanced VMEbus Access architecture of the VMIVME-7751. Running on Windows XP/Windows 2000, VMEbus Access is both sophisticated and easy to use.

The function library, VME toolset and open architecture VMEbus Access offers make it one of the most powerful products on the market today. It provides compatibility with existing Abaco VME PC platforms and compatibility within the future VME PC platforms Abaco creates.

The VMEbus Access development package gives you everything you need to develop applications for your VME operations. This package includes the VMEmanager™ function library and four utilities that enable you to easily configure a VME, dynamically monitor VME activities, manage VME data, and use DDE-client applications.

VMEbus Access provides powerful tools for developing, debugging and monitoring VME applications and increasing VME performance. The flexible design of VME Access enables you to incorporate it as a standalone solution or use it to open your VME operations to the IOWorks product suite.

VMEbus Access manipulates the hardware behind the scenes. With VMEbus Access, you can develop applications in or use existing applications developed in most programming environments. For example, VMEbus Access enables your VME to recognize applications developed in these popular programming environments:

- IOWorks Manager™
- LabVIEW
- Citect
- Wonderware InTouch
- Visual IOWorks®
- Visual Basic®
- Visual C++®

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VxWorks OS Support — VMISFT-7418* Board Support Package: The VMISFT-7418 is a Wind River Systems, Inc.'s certified board support package (BSP) for Abaco's series of VME Pentium processor-based computers, which is required to run the VxWorks OS. With the SBC, VxWorks, the BSP, and other VME equipment from Abaco, implementations can be created for a wide variety of applications, including real time factory automation, simulation, instrumentation and control, and process control and monitoring.

The BSP is linked with VxWorks OS, thus allowing software applications created with Wind River Systems, Inc.'s development system to load and run on the particular Abaco SBC hardware being used. Serial ports, parallel ports, keyboard, text mode video, and Ethernet transceivers are all supported, as well as floppy and IDE hard disk drives that can be connected to the computer boards. The BSP provides Flash boot, NVRAM and timer support.

The BSP allows VxWorks applications to have access to the VME. When hardware includes single cycle and block transfers using DMA devices, they are supported by the BSP, as are interprocessor communications with mailbox registers. VME interrupt handling and error handling are supported. Since the VME environment often contains a mixture of devices from various manufacturers, the byte-swapping feature is provided to allow big-endian and little-endian devices to share data correctly.

QNX OS Support — VMISFT-7417* Board Support Package: The VMISFT-7417 BSP provides QNX support and includes a VME manager, user API and configuration files needed to run the QNX BSP on Abaco's VMIVME-7xxx SBC products. This BSP provides customizable VME access. Using the QNX OS on the VMIVME-7xxx SBCs provides a computing platform suitable for real time applications. QNX provides the applications programmer with a real time extensible POSIX OS.

Abaco's VMISFT-7417 is designed to tailor QNX's x86 OS to the VMIVME-7xxx platform. This combination provides a self-hosted development environment that runs entirely on the VMIVME-7xxx SBC boards without requiring any external host systems.

Solaris OS Support — VMISFT-7416* Board Support Package: The VMISFT-7416 BSP includes everything necessary to allow installation of the Solaris Intel edition OS (available separately from Sun Microsystems, Inc.) onto the VMIVME-7751 SBC. This BSP includes a nexus driver for VME access. It allows military and telecommunications and other applications to take advantage of Sun Microsystems, Inc.'s Solaris OS on a VME-based Intel SBC. This BSP and the Solaris OS provides POSIX-compliant real time characteristics.

LynxOS x86 OS Support — VMISFT-7419* Board Support Package: The VMISFT-7419 BSP includes all of the device drivers and configuration tables needed to install the LynxOS x86 development system (available separately from Lynx Real-Time Systems, Inc.) onto Abaco's VMIVME-7751.

Using the LynxOS on the Abaco SBCs provides a computing platform suitable for hard real time applications. LynxOS provides the applications programmer with a stable development environment based on industry-wide standards such as POSIX and Motif.

I/O Support — VMISFT-9450* IOWorks Board Drivers: This driver supports Abaco's extensive line of VME I/O boards and is available for Windows XP/Windows 2000 and VxWorks. IOWorks board drivers take advantage of all the key benefits and features of each supported I/O board and new I/O boards are constantly being added.

IOWorks board drivers contain both a C++ class library and a C function library that provide a common interface to Abaco I/O products for reading, writing and configuring. You do not need to know the details of how an individual board is programmed. For instance, you can use the SetAttributes function on any supported Abaco board; the WriteAnalog function controls the output from any Abaco analog output board; or the GetScanMode function retrieves the scan mode for any Abaco analog board.

Physical/Environmental Specifications

Dimensions: 6U double slot Eurocard form factor

Height	9.2 in. (233.4mm)
Depth	6.3 in. (160mm)
Thickness	1.6 in. (20.3mm)

Power Requirements:
+5VDC (±5 percent), 6.0A (typical), 12.0A maximum
+12VDC (±5 percent), 105mA (typical), 200mA maximum
-12VDC (±5 percent), 50mA (typical), 75mA maximum

Note: The currents at +12 and -12VDC are specified with the serial connectors open.

The operating and storage temperature ranges for the VMIVME-7751 are different for those configurations with extended temperature and/or hard disk drive options. To determine the permitted operating and storage temperature ranges, use the most restrictive limit for the option configuration being considered. Options with hard disk drive also specify a temperature rate of change restriction.

Operating Temperature (except as noted below): 0 to +50° C
(Air flow requirement as measured at output side of heatsink is to be greater than 350 LFM)
Option A = 2; (733 MHz) 0 to 60° C
Option A = 6; (1 GHz) 0 to 40° C
Option E = 1; 5 to 60° C, Gradient 15°C per hour maximum
Option E = 3 or 4; 5 to 55° C, Gradient 20°C per hour maximum

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Storage Temperature (except as noted below): -25 to +85° C
Option E = 1; -20 to 65° C, Gradient 15°C per hour maximum
Option E = 3 or 4; -20 to 60° C, Gradient 20°C per hour maximum

Relative Humidity: 10% to 90%, noncondensing

VME Interface:

DTB Master:	BLT32/BLT64, A32/D32, A24/D32, A16/D32
DTB Slave:	BLT32/BLT64, A32/D32, A24/D32, A16/D32
Requester:	Programmable, BR(3 to 0), ROR, RWD, BCAP
Interrupt Handler:	IH(1 to 7) D8(O)
Interrupter:	Programmable, IRQ7* to IRQ1*
Arbiter:	SGL, PRI, RRS
BTO:	Programmable (4 to 1,024 µs)
Compliance:	Rev. C.1

PMC Expansion Site Connector: 5V signaling, types 1 and 2
32-bit PCI bus, 33 MHz maximum

MTBF: Contact factory

Regulatory: The VMIVME-7751 has been tested to and found to meet the requirements of the following standards.

European Union (CE Mark)
EN55024
EN55022 Radiated Emissions Class A
EN61000-4-2 (ESD)
EN61000-4-3 (Radiated Immunity)
EN61000-4-4 (EFT)
EN61000-4-5 (Surge)
EN61000-4-6 (Conducted RF)
EN61000-4-11 (Voltage Dips)
EN61000-3-2 (Harmonic Emissions)
EN61000-3-3 (Flicker)

United States
FCC Part 15, Class A

Canada
ICES-003, Class A

Safety: The VMIVME-7751 has been tested to and found to meet the requirements of the following safety standards.

UL60950-1
CSA C22.2, No. 60950-1-03
EN60950-1 (Low Voltage Directive)

Compatible Products

The VMIVME-7751 can be used with a number of Abaco PMC bus and VME products.

Floppy Drive: Abaco produces floppy drive modules to support the built-in IDE and floppy controller ports. The VMIACC-0562*/ ACC-0562RC* convert P2 IDE/floppy signals to 40- and 34-pin headers for use at the rear of the VME backplane.

PMC Capability: Abaco supports PMC via the PMC expansion sites. These expansion sites allow the VMIVME-7751 to take advantage of the many commercially available PMC boards available from third-party sources.

CD/DVD Support: Since much of today's advanced software is delivered on CD/DVD, the VME-7469* provides CD/DVD capability, with an optional hard disk drive, SATA drive or CompactFlash, within a single 6U VME slot.

VME: The VMIVME-7751 enables access to Abaco's wealth of VME products. If you have real world control, monitoring and real time networking requirements, Abaco has a solution for you. Today's system requirements demand state of the art solutions. Our advanced I/O features such as built-in-test, self-test, isolation, digital autocalibration, and intelligent DSP processing give our customers those solutions.

The I/O Solution for Your I/O Problem: Abaco's experience in supplying high performance deterministic controllers for multiple markets has led to the development of IOWorks software with features, benefits and capabilities to solve nearly any I/O problem. From PLC alternatives to data servers that support the seamless interconnection of dissimilar systems, Abaco has the solution for simple to complex, high speed, deterministic requirements. IOWorks PC platforms, target, OS and I/O independency provide the flexibility for solutions shown in Figure 1.

Trademarks

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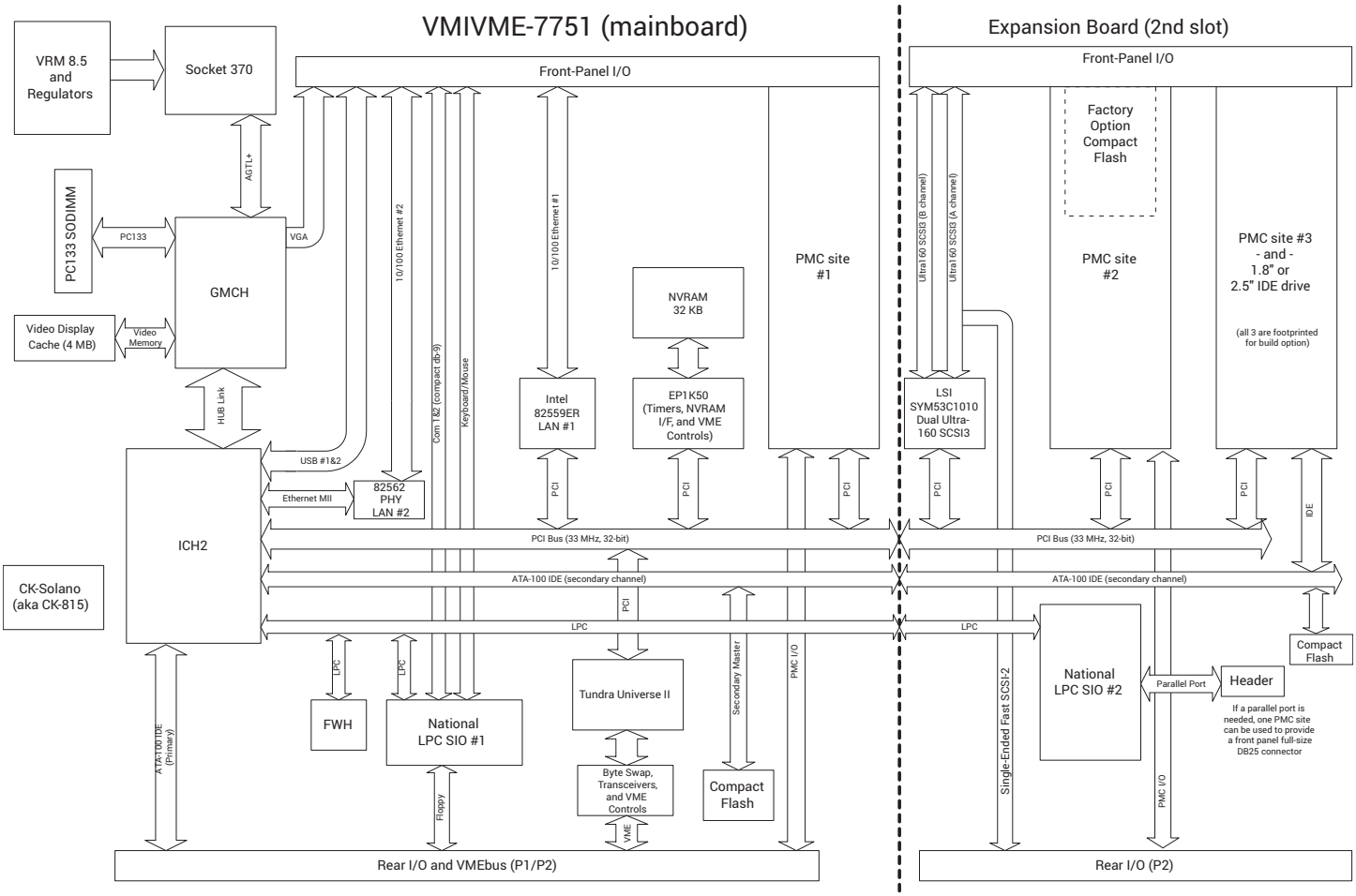


Figure 1. VMIVME-7751 Main Board (Single Slot)

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