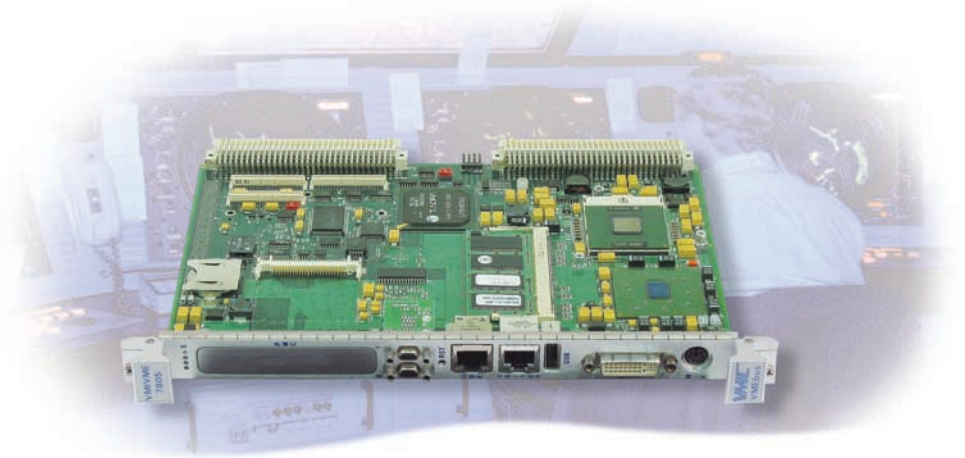




Embedded Systems



VMIVME-7805

Intel® Pentium® 4 Processor – M
Single Slot VME Single Board Computer

GE Fanuc's VMIVME-7805 is a single slot VME single board computer (SBC) that integrates Intel®'s Pentium® 4 Processor – M and the Intel 852GME chipset into a robust solution ideal for bandwidth intensive applications required in multiple environments. Designed as a cost effective, high performance SBC, GE Fanuc's VMIVME-7805 delivers exceptional value, featuring speeds up to 2.2 GHz with 512 Kbyte of L2 cache, a 400 MHz system bus, and up to 1 Gbyte 200 MHz DDR SDRAM. The VMIVME-7805 offers a front panel digital video interface (DVI-I) for both digital and analog display support and provides users with high-resolution graphics and multimedia-quality video via an internal graphics controller.

Product Features

GE Fanuc's VMIVME-7805 features the Intel NetBurst™ microarchitecture which delivers the performance needed to meet the growing demands of a new generation of leading edge embedded products, with scalability that helps minimize total cost of ownership. This VME SBC offers affordability without sacrificing performance, making it an ideal solution for applications including communications and military/defense.

Additional VMIVME-7805 features:

- Up to 1 Gbyte of CompactFlash
- 10/100/1000BaseT Ethernet port
- 10/100BaseTX Ethernet port
- Remote Ethernet booting available
- One PMC Site
- SVGA/DVI-I with up to 1600 x 1200 resolution
- Two 16550-compatible serial ports
- One USB 2.0 port
- PS/2 style keyboard and mouse port
- 32 Kbyte NVRAM
- Two 32-bit programmable timers
- Two 16-bit programmable timers
- Programmable watchdog timer
- Passive heatsink
- Operating system support for Windows® 2000, Windows XP, QNX®, Linux®, and VxWorks®



imagination at work

VMIVME-7805 Specifications:

- **CPU**
 - Intel Pentium 4 Processor – M at 1.7 GHz or 2.2 GHz
 - Uses the Intel 852GME chipset
 - Features the Intel NetBurst microarchitecture
 - 400 MHz system bus
 - 512 Kbyte L2 advanced transfer cache (ATC)
- **SDRAM**
 - Up to 1 Gbyte 200 MHz DDR SDRAM using one SODIMM
 - Data transfer rate of 3.2 Gbyte/s
- **CompactFlash**
 - Up to 1 Gbyte of CompactFlash
- **Ethernet**
 - Intel's ICH4-M chipset (10/100 support) and 82540EM (10/100/1000 support)
 - One Ethernet port supporting 10BaseT and 100BaseTX on the front panel
 - One Ethernet port supporting 10BaseT, 100BaseTX, and 1000BaseT (Gigabit Ethernet) on the front panel
 - RJ45 connectors with network connection speed and activity indicators
 - Remote LAN booting
- **Graphics**
 - Intel 852GME chipset internal graphics controller
 - Up to 1600 x 1200 resolution
 - DVI-I (SVGA support) video adapter on the front panel
- **PMC Expansion**
 - One PMC expansion site
 - ◊ 5 V signaling
 - ◊ 32-bit, 33 MHz
 - Supports IEEE-1386 common mezzanine card specification
- **Serial Interfaces**
 - Two 16550-compatible serial ports on front panel (two micro DB9 connectors)
- **Other Interfaces**
 - One USB 2.0 port on front panel
 - One PS/2 port for keyboard and mouse on front panel
 - IDE and floppy routed to P2
 - Hardware reset on front panel
 - Programmable watchdog timer
 - Two 16-bit timers and two 32-bit timers (all programmable)
- **Front Panel Status LEDs**
 - Reset
 - Power
 - IDE indicator
 - Booting
- **Operating System Support**
 - Windows 2000
 - Windows XP
 - QNX
 - Linux
 - VxWorks
- **Power Requirements**
 - +5 VDC (±5%), 6.02 A (typical), 8.20 A (max)
- **Environmental Specifications**
 - Operating: 0 to 50 °C
 - Storage: -25 to 80 °C
 - Relative Humidity: 10% to 90%, noncondensing
- **Mechanical Specifications**
 - 6U single slot Eurocard format
 - Height: 9.2 in. (233.4 mm)
 - Depth: 6.3 in. (160 mm)
 - Thickness: 0.8 in. (20.3 mm)
- **Mean Time Between Failures (MTBF)**
 - 118,633 hours (Bellcore)

Ordering Options

August 31, 2004 800-007805-000 F	A	B	C	D	E	F
VMIVME-7805	–			0	0	
A = Processor 1 = 1.7 GHz Pentium 4 Processor - M 2 = 2.2 GHz Pentium 4 Processor - M B = System DDR SDRAM without ECC 0 = Reserved 1 = 256 Mbyte 2 = 512 Mbyte 3 = 1 Gbyte C = CompactFlash 0 = No CompactFlash 1 = 128 Mbyte 2 = 256 Mbyte 3 = 512 Mbyte 4 = 1 Gbyte D = 0 (Option reserved for future use) E = 0 (Option reserved for future use) 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						
Note						
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: info.embeddedsystems@gefanuc.com Web Address: www.gefanuc.com/embedded Copyright © 2004 by VMIC Specifications subject to change without notice.						

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Additional Resources

For detailed technical specifications and product ordering information, please visit the GE Fanuc Embedded Systems web site at:

www.gefanuc.com/embedded



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