



GE Intelligent Platforms V7751 VMEbus CPU Board Specification

Processor

- Minimum: Intel Core Duo 1.5 GHz or equivalent processor.
- 64 bit native capability
- Maximum 35w power consumption

Memory configuration

- Minimum: 4 GB of RAM

Mouse/ Keyboard

- PS/2 adapter combination adapter
- USB adapter is not acceptable

SVGA (standard) video card

- 15 pin standard VGA interface.
- 1280 x 1024 support required.

SCSI 3 compatible disk subsystem

- Compatible with the current SCSI 3 160 disk subsystem that is currently used on the system

SAS and SATA configuration capability for future development

- The ability to add a SAS or SATA disk subsystem in the future without purchasing a new single board computer.

Parallel port

- IEEE 1284 compatible parallel port interface located on the front panel

Ethernet

- Minimum of two 100TX or 1000 TX Ethernet adapters routed to front panel RJ45 connectors

USB Ports 2.0 or better

- Minimum: Two USB ports both routed to front panel

VMEbus Backplane Interface

- Pin outs must be compatible with the GE Fanuc V7751. This implementation is two slot implementation with the IDE configured with P2 slot one for IDE and P2 slot 2 for SCSI devices.
- Do not include a P0 slot.

Serial Ports

- Minimum: 2 serial port 16550 UART compatible s via two Micro DB9 connectors on the front panel

PMC Extension Slot

- Minimum: 1 PMC expansion site (IEEE 1386.1) not used to meet other requirements and available for future expansion.

Physical requirements

- Commercial grade materials and assembly

OS Support

- Windows OS and driver support for Windows 2003 and Windows 2008
- Linux OS and driver support for Red hat and Debian Linux (kernel 2.6.24 or greater)
- Bios support

Temperature

- Operating: 0 to +70° C
- Storage: -40 to +80° C