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GE Fanuc
Intelligent Platforms

PMC-24x Family

High Capacity Disk Storage Solutions

Features

- Boot and run any OS in a single slot
- PCI 32-bit at 33/66 MHz
- 2.5" SSD media to 16 GByte
- Rotating media from 40 GByte to 160 GByte
- CompactFlash from 512 MByte to 16 GByte
- Alternative to costly SCSI legacy
- Fast read/write performance
- Compact and extremely rugged
- Drivers for most popular RTOS and UNIX environments
- Access to rapidly evolving capabilities in both capacity and transfer performance
- Integration with environmental requirements that are more stringent than general purpose processor environments
- Supports 32-bit wide PCI and speeds up to 66 MHz on the ATA (to disk) bus
- The PMC243 and PMC244 use the Promise Technology PDC20269 controller (fully PCI 2.1 compliant)
- All modules are complaint to the common mezzanine card (CMC) specification for PCI Mezzanine Cards
- All initialization and functional configuration of the modules is done automatically by software

The PMC24X family provides a single PCI Mezzanine Card (PMC) slot storage solution utilizing industry standard rotating and solid-state disks. Designed to be plugged onto a host processor [or Single Board Computer (SBC) card], these products provide an extremely compact, flexible and economical high performance storage solution that will mount on any PMC location, either directly on a processor card or on a PMC carrier board.

PMC-24x Family

The PMC24x family of embedded disk modules offers a high performance, low cost option for file system and boot storage. Combining high performance controllers developed for high-end workstations with disk technology used in laptops, the PMC243, PMC244 and PMC245 products deliver very high data rates in a compact form factor implemented with components designed for physically demanding environments. Other members of the PMC24x family (such as PMC244) utilize Compact Flash or MicroDrive storage devices providing media portability. With the PMC24x "single slot," computing solutions, you do not need to compromise in either capacity or performance.

Software

GE Fanuc intelligent Platforms provides full software support for all the popular software environments including VxWorks®, LynxOS®, Windows® NT, and Solaris®. Each driver has been developed specifically for the real time data acquisition.

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PMC24x Family High Capacity Disk Storage Solutions

Specifications

Form Factor
PMC243/4/5
- PMC

PCI Bus Characteristics
PMC243/4/5
- Specification: 2.2
- Signalling: 5 & 3.3 V
- Speed: 33/66 MHz
- Width: 32 bits

Power
PMC243
- 2 watts
- @ 3 V: 0.6 A

PMC244
- 1 watt total
- @ 3.3 V: 0.05 A
- @ 5 V: 0.15 A

PMC245
- 1 watt total
- @ 3.3 V: 0.1 A
- @ 5 V: 0.2 A

MTBF
PMC243/4
- MIL 217-F NAV Shel 25°C: 380,000 hours

PMC245
- MIL 217-F NAV Shel 25°C: 376,000 hours

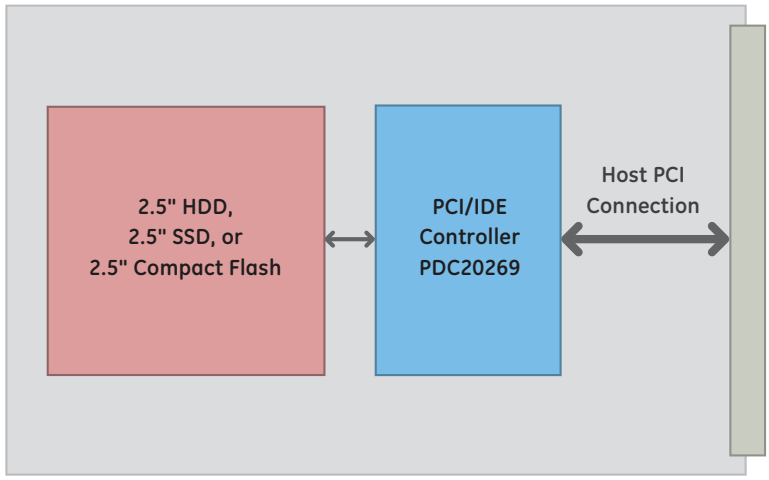
Temperature
PMC243
- Operating: 5° to +55° C (rotating disk)
  0° to +60° C (solid state)
  -40° to +85° C ((rotating disk IND)
- Storage: -40° to +85° C

PMC244
- Operating: 0° to +70° C (Industrial CF)
- Storage: -45° to +90° C

PMC245
- Operating: 0° to +70° C (Industrial CF)
- Storage: -45° to +90° C

Humidity
PMC243/4/5
- Operating: 5% to 95% non-condensing
- Storage: 5% to 95% non-condensing

Block Diagram



Ordering Information

Model Number	Drive Types Supported	# Drives Supported	Drive Integration	Ordering Options
PMC243	2.5" Rotating media 2.5" Solid state media 2.5" Extended Duty	1 1	Integrated into PMC assembly	Rotating 40 to 160 GByte 2.5" SSD 8 to 16 GByte RXX/EE252s
PMC244	CompactFlash (Max size 8 GByte)	3	Integrated into PMC assembly with EIDE interface to external disk	PMC244FP Front panel w/latch PMC244FPL PMC244M Conduction cooled PMC244RG Recessed CF
PMC245	Dual CompactFlash (Max size 16 GByte)	4	Integrated into PMC assembly with EIDE interface to external disk	PMC245/44/CF Dual CF PMC245/44 No CF PMC245/44 CF Dual CF PMC245/ 40-pin IDE

Add **-S** at the end of the part number for Solaris Boot option.

About GE Fanuc Intelligent Platforms

GE Fanuc Intelligent Platforms is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Intelligent Platforms has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanuc.com.

GE Fanuc Intelligent Platforms Information Centers

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Additional Resources

For more information, please visit the GE Fanuc Intelligent Platforms web site at:

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