

PMC-0247/PMC-0247RC

PMC Serial ATA Hard Disk Drive Module

Features

- PMC-0247 is the standard product
- PMC-0247RC is the RoHS complaint product
- Offers Enterprise Class storage for Embedded Computing
- Solid state drives with 10 GByte or 20 GByte capacities
- 5-year HDD Product Lifecycle available for specified rotating media
- Standard and continuous operation drives (24x7, 8760 hours/year)
- Extended shock and vibration option for maximum robustness
- Extreme altitude operation possible up to 16,400 feet available
- Support for SATA I 150 MByte/s interface
- Support for SATA II 300 MByte/s interfaces
- Support for a programmable external flash for BIOS expansion
- Supports 32/64-bit, 133 MHz maximum PCI-X interface
- Rotating Media with 40 GByte, 80 GByte and 160 GByte capacities (see ordering options)
- Solid state drives with 16 GByte and 32 GByte capacities (contact factory)
- 5-year HDD Product Lifecycle available for specific rotating media
- Standard and continuous operation drives (24x7, 8760 hours/year)
- Extended shock and vibration option for maximum robustness
- Extreme altitude operation possible up to 16,400 feet available
- Compliant with VITA 39 Specification
- Operating system support for Windows® 2000, Windows XP, Red Hat Linux® Enterprise 4.0, and VxWorks® versions 5.4/5.5
- RoHS compliant (PMC-0247RC only)

The PMC-0247 and PMC-0247RC are Serial ATA hard disk drive modules in the PMC form factor, designed for use with single board computers with a PMC site and carrier boards from GE Fanuc Intelligent Platforms and other third party manufacturers. Universal signaling support allows installing the modules in any available 3.3 V or 5.0 V PMC site. The PMC-0247 and PMC-0247RC use a 2.5 inch hard disk drive and have a maximum capacity of 160 GBytes.



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Specifications

Form Factor

- PMC

Power Requirements

- Supplied through the PMC site connectors on the host
- Power requirements are drive-dependent

Environmental

Operating Temperature

- SATA standard operation: +5 to +55 C
- SATA continuous operation: +5 to +40 C
- SATA Solid State: 0 to +70 C

Storage Temperature

-40 to +85 C

Relative Humidity

5% to 95%, noncondensing

MTBF

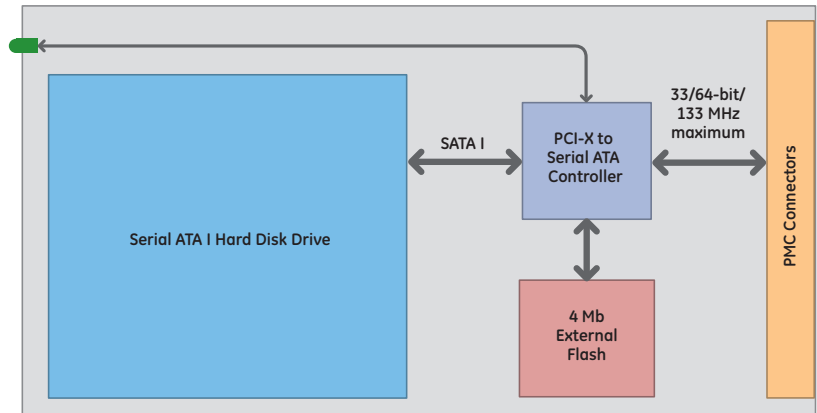
- 452,149 hours standard operation
- 282,149 hours continuous operation

Regulatory

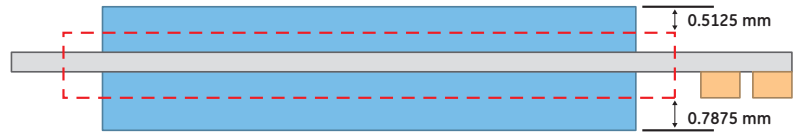
The PMC-0247/PMC-0247RC has been tested to and found to meet the requirements of the following standards.

- European Union (CE Mark)
 - EN55024
 - EN55022 Radiated Emissions Class A
 - EN61000-4-2 (ESD)
 - EN61000-4-3 (Radiated Immunity)
 - EN61000-4-8 (Power Frequency Magnetic Fields)
- United States
 - FCC Part 15, Class A
- Canada
 - ICES-003, Class A
- RoHS 6/6: European Community Directive 2002/95/EC (PMC-0247RC only)

Block Diagram



Side View



NOTE: The PMC-0247/PMC-0247RC violates the PMC specification for top and bottom maximum component height by 0.5125 mm and 0.7875 mm respectively.

Ordering Information

PMC-0247/PMC-0247RC - ABCDEF

A = SATA Interface

- 1 = SATA I (1.5 Gb/s)
- 2 = SATA II (3.0 Gb/s)

B = Hard Disk Drive Capacity

- 0 = No hard drive
- 1 = 40 GB HDD
- 2 = 80 GB HDD
- 3 = 160 GB HDD (5400 RPM)
- 4 = Reserved
- 5 = Reserved
- 6 = 120 GB HDD (7200 RPM)
- 7 = 160 GB HDD (7200 RPM)

C = Operating Mode

- 1 = Standard mode
- 2 = Extended duty

D = Solid State Drive

- 0 = No SSD
- 1 = 10 GB SSD
- 2 = 20 GB SSD

E, F = 0 (Options reserved for future use)

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.

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Additional Resources

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

www.gefanuc.com

