



Telum™ 210 SAS

Serial Attached SCSI Hard Disk Drive with SAS/SATA Controller on AdvancedMC™

Features

- Four SAS channels; AMC.3 compliant; supports up to two off-board SATA and SAS channels
- Serial Attached SCSI hard disk drive with up to 146 GB capacity
- Support integrated RAID with integrated striping and mirroring; no software support required
- IPMI v2.0 compliant Module Management Controller (MMC)
- Supports PCI Express up to x8 lanes
- Fast read/write performance
- Supports single- and dual-port SAS drives
- Available with mid-size or full-size faceplates
- Support for Solaris®, Linux®, and Windows® 2000 and Windows® XP

Compliance

- AMC.0 R2.0
- AMC.1
- AMC.3
- mTCA.0
- IPMI v2.0 compliant MMC
- RoHS 2002/95/EC

The Telum™ 210 SAS AdvancedMC module supports 2.5" on-board SAS hard disk drive storage with an LSI 1064E SAS Controller designed for use with AdvancedTCA (ATCA) single board computers, carriers and MicroTCA platforms.

The Telum 210 is available with either a 73 GB or 146 GB hard disk drive. The onboard LSI SAS controller allows SAS operations at up to 3 Gb/s with no additional resources required from the host processor.

For maximum system design flexibility, the module is available with either a mid-size or full-size faceplate. Conformal coating is optional.

Intelligent Platform Management Interface (IPMI) & Hot Swap Compliance

An AMC.0 Module Management Controller (MMC) subsystem that is IPMI v2.0 compliant initializes board level parameters, monitors board voltage and temperature conditions, maintains system status, and manages hot swap operation. A microcontroller is used as the IPMI intelligence and connects to the AMC management bus. These modules are hot swap capable and field replaceable in accordance with AMC.0.



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Specifications

Form Factor

- AMC.0 R2.0 single-width
- Full- or mid-size faceplates

Drive speed

- 10,000 rpm

Front Panel I/O

- LEDs for drive activity, hot swap, and failure

Weight

- 0.3 Kg (0.66 lbs)

Power Requirements

- Power for the Telum 210 is supplied through the AdvancedMC site connector on the host
- 12 VDC, 2.8A typical, 3.0A maximum

Environmental

- Operating temperature: +5° to +55 °C
- Storage temperature: -40° to +85 °C
- Relative humidity: 5% to 95%, noncondensing

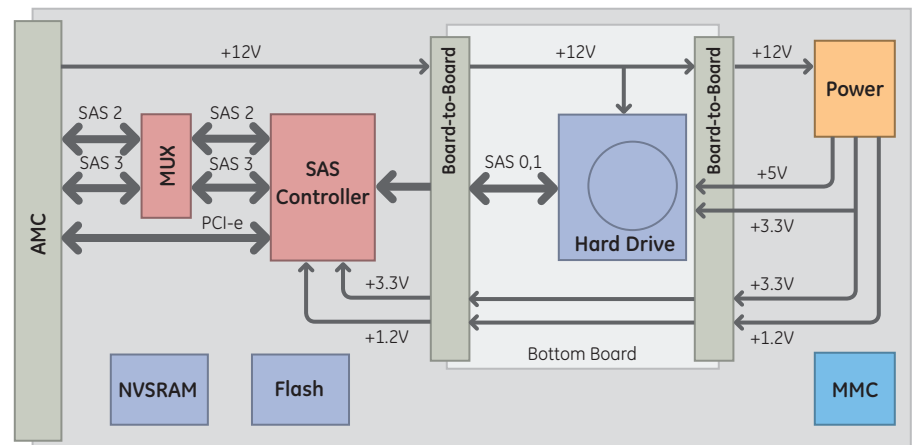
MTBF

- 1,400,000 hours (MIL 217FNAV Shel 25 deg. C)

Regulatory Compliance:

- CE Mark
 - EN61000-3-2 (Harmonic Current Emissions)
 - EN61000-3-3 (Voltage Fluctuations and Flicker)
 - EN61000-4-2 (ESD)
 - EN61000-4-3 (Radiated Immunity)
 - EN61000-4-4 (EFT)
 - EN61000-4-6 (Conducted FR)
 - EN61000-4-11 (Voltage Dips and Interruption)
- Safety
 - UL508 where applicable
- RoHS 2002/95/EC

Block Diagram



Ordering Information

	A	B	C	D	E	F
Telum 210	-		0	0	0	

AB = Drive Options

- 00 = Reserved
- 40 = Reserved
- 41 = Reserved
- 42 = 73 GB SAS Drive
- 43 = 146 GB SAS Drive

C-E = 0 (Reserved)

F = Additional Options

- 0 = Full-size front panel
- 1 = Mid-size front panel
- 2 = Reserved

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

