AMC 2.5 Inch Dual Drives Module

AMC603

THE POWER OF VISION

KEY FEATURES

- Two 2.5 inch SATA HDDs providing up to 400 Gbytes combined

- Optional Solid State Disk (SSD)

- AMC.1 or AMC.3 options

- IPMI 2.0 compliant

- RoHS compliant

- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

The AMC603 has two 2.5 inch SATA HDDs in a single-width, full-height storage module in the Advanced Mezzanine Card (AMC) form factor based on the AMC.1 or AMC.3 specification. The hard disk drives can support data transfer rates of over 150 Mbyte/s and provide up to 640 Gbytes of total capacity. The AMC603 is ideal for adding high-capacity storage and can run as RAID0 (striping across the two driver for increased space and performance) or RAID1 (mirroring the two drives for fault tolerance). It can also run as two independent disks.

The AMC603 is also available with Solid State Flash drives.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

AdvancedMC™

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Full-Height
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Product Type	**AMC Storage**	Two 2.5 inch SATA HDDs
		Optional Solid State Disk Drives (contact Sales for capacity and availability)
		5400 RPM (with an option for 7200 RPM drives), < 12 ms average seek time
		Up to 400 Gbytes combined Hard Drive capacity
		150 Mbyte/s transfer rate

Standards		
AMC	**Type**	AMC.1 or AMC.3
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	x1

Configuration		
Power	**AMC603**	7W
Environmental	**Temperature**	Operating Temperature: 0° to 60° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +70° C
	Vibration	Operating 9.8 m/s2 (1.0G), 5-500Hz
	Shock	Operating 325G/2ms, 160G/1ms
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**LEDs**	IPMI Management Control
		Activity
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux, Windows, Solaris and VxWorks

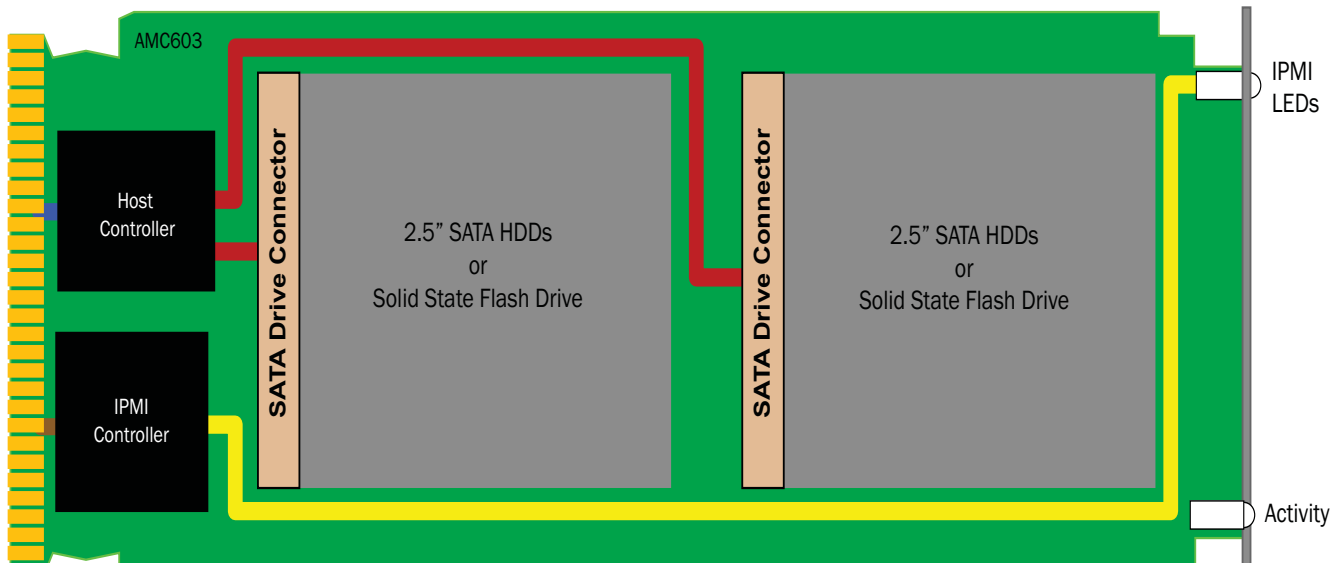| Other	
MTBF	MIL-217F > 363,000 (without the disks)
Certifications	Designed to meet FCC, CE and UL certifications where applicable
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards
Compliance	RoHS and NEBS
Warranty	Two (2) years
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC^{TM} and the AdvancedTCA^{TM} logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

FIGURE 1. AMC603 Functional Block Diagram

FIGURE 2. AMC603 Front Panel
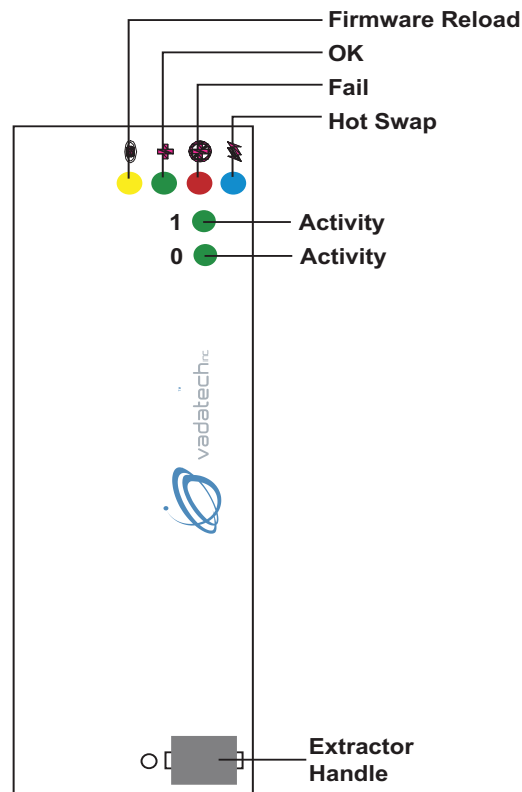
ORDERING OPTIONS

AMC603 - AB0 - DE0 - 00J

A = SATA Drive Capacity*

0 = No Disk Drive
1 = 250 Gbytes
2 = 500 Gbytes
3 = Reserved
4 = Reserved
5 = Reserved
6 = Reserved
7 = Reserved
8 = Solid State Flash Drive
(Contact Sales for availability)

D = AMC Compliant

1 = Extended
   Temperature Range
   (-20° C to +80° C)
2 = Standard
   Temperature Range
   (0° C to +60° C)

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

B = Firmware

0 = Two Independent disks
1 = RAID0 (striping)
2 = RAID1 (mirroring)

E = AMC Compliance

1 = AMC.1
2 = AMC.3

*Both disks must be identical

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