AMC 1.8 Inch Dual Drive Module

AMC601

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KEY FEATURES

- Two 1.8 inch ATA HDDs, up to 240 Gbytes total
- Available with optional Solid State Flash drives
- AMC.1 or AMC.3 options
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

The AMC601 has two 1.8 inch ATA HDDs in a single-width, half-height (option for mid/full-height) storage module in the Advanced Mezzanine Card (AMC) form factor. The hard disk drives can support data transfer rates of over 100 Mbyte/s and provides up to 120 Gbytes of storage capacity per disk. The AMC601 is ideal for adding high-capacity storage and can run as RAID0 (striping across the two drives for increased space and performance) or RAID1 (mirroring the two drives for fault tolerance). It can also run as two independent disks.

The AMC601 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**	Single-Width, Half-Height (with Mid or Full-Height options)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	**AMC Storage**	Two 1.8 inch ATA HDDs
		Optional Solid State Disk Drives (contact sales for capacity and availability)
		4200 RPM, < 15 ms average seek time
		Up to 120 Gbytes capacity per drive
		100 Mbyte/s transfer rate
Standards		
AMC Connector	**Type**	AMC.1 or AMC.3
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	x1
Configuration		
Power	**AMC601**	4W
Environmental	**Temperature**	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	Operation 2.0G (15-500Hz)
	Shock	Operation 500G/2.0 ms
	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	MII-217-F > 254,000 (without the disk).	
Certifications	Design 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	
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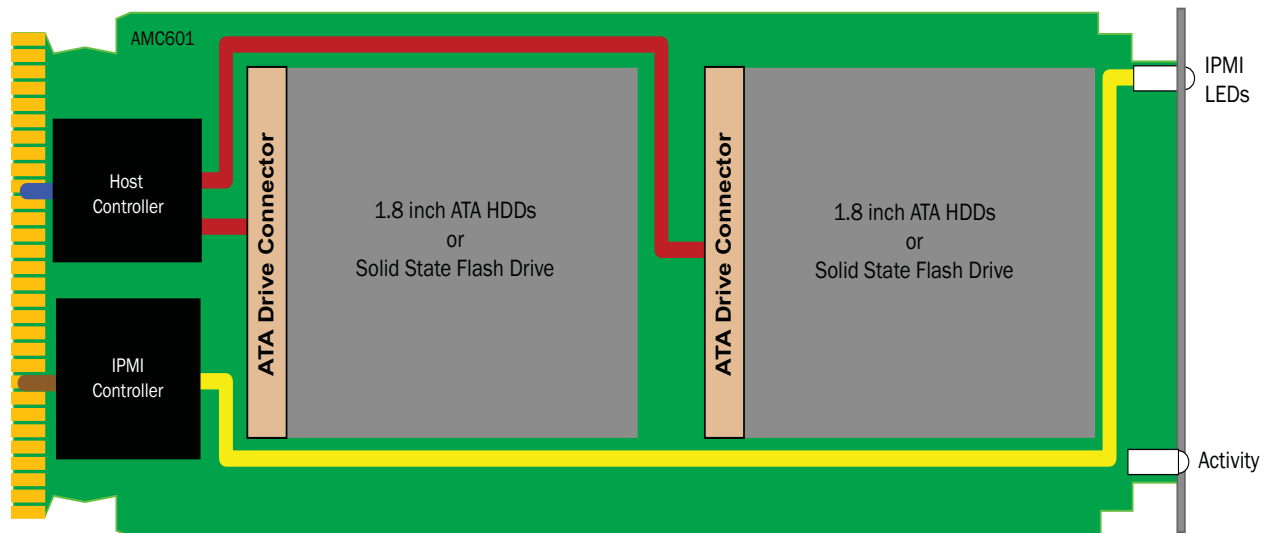
FIGURE 1. AMC601 Functional Block Diagram
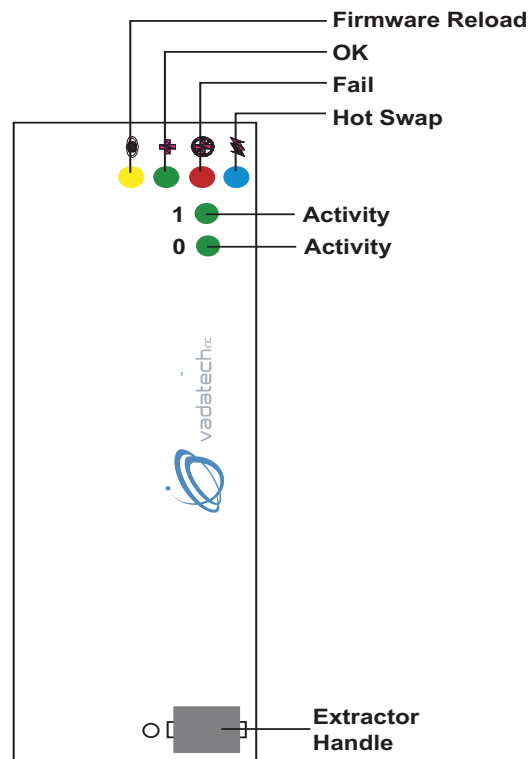
FIGURE 2. AMC601 Front Panel

ORDERING OPTIONS

AMC601 - ABC - DE0 - 00J

A = ATA Drive Capacity*

1 = 60 Gbytes
2 = 80 Gbytes
3 = 100 Gbytes
4 = 120 Gbytes
5 = Reserved
6 = Reserved
7 = 1.8" Solid State Flash Drive (SSD)
(Contact Sales for availability)

D = Temp

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

E = AMC Compliance

1 = AMC.1
2 = AMC.3

C = Front Panel Height

1 = Half-Height
2 = Mid-Height
3 = Full-Height

***Both disks must be identical

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