



### 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™**

# AMC 1.8 Inch Dual Drive Module

## 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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# AMC 1.8 Inch Dual Drive Module

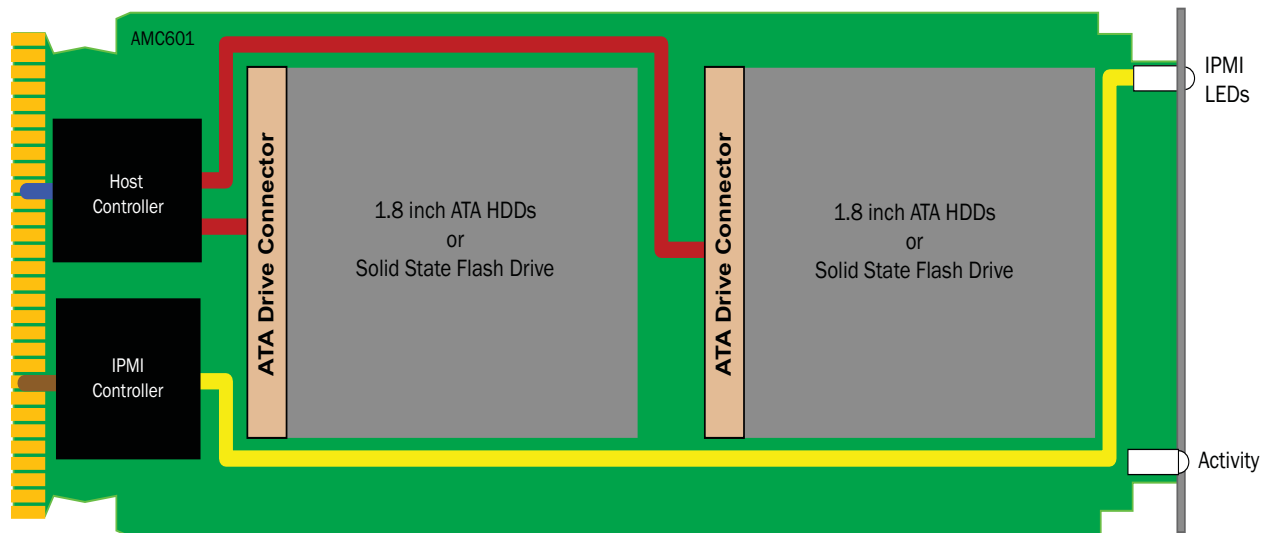


FIGURE 1. AMC601 Functional Block Diagram

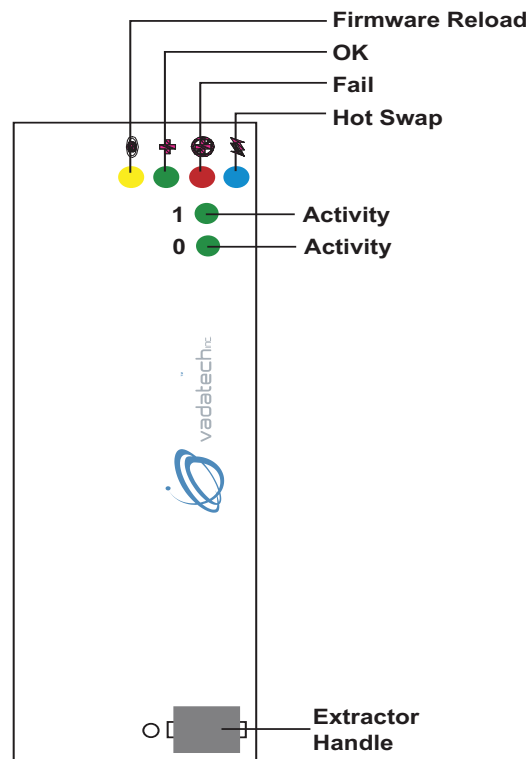


FIGURE 2. AMC601 Front Panel

# AMC 1.8 Inch Dual Drive Module

## ORDERING OPTIONS

### 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)

### B = Firmware

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

### C = Front Panel Height

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

\*Both disks must be identical

### AMC601 - ABC - DE0 - 00J

### 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

### E = AMC Compliance

- 1 = AMC.1
- 2 = AMC.3

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