# AMC Advance RAID (0, 1, 5, 6, 10, 50 and 60)







## **KEY FEATURES**

- AMC.1 with: RAID levels 0, 1, 5 and 6 RAID spans 10, 50 and 60
- Dual Core ROC (RAID On Chip) at 800MHz
  per Core
- PCIe Gen3 x4 or x8 lanes
- Single-width, mid-height (full- height option available)
- Two mini-SAS-SFF-8644 x4 connectors (SAS HD Interconnect System))
- 6Gb/s throughput per port
- 1GB DDRIII cache (1333MHz)
- Battery backed cache protection (option)
- Connect up to 240 SATA and/or SAS devices
- Up to 64 logical drive support
  - Online: Capacity Expansion RAID level migration
- IPMI 2.0 compliant
- RoHS compliant

The AMC628 is a very high end single-width, mid-height AdvancedMC<sup>TM</sup> (AMC) form factor based on the AMC.1 and AMC.3 specification. With the capability to do RAID levels 0, 1, 5 and 6 it is the most advance RAID controller in the market. In addition it has capability to do RAID spans 10, 50 and 60.

The Module has two mini-SAS- SFF-8644 x4 to connect to an external JBOD or other  $\mu$ TCA Chassis Storage solution.

The RAID has capabilities for online capacity expansion and level migration. Further, auto resume after loss of system power during arrays array rebuild or reconstruction, load balancing, check consistency for background data integrity.

The RAID is managed via a sophisticated GUI and runs LSI MegaRAID Software.



# **SPECIFICATIONS**

Architecture			
		Single-Width, Mid-Height (with Full-Height option)	
Physical	Dimensions	Width: 2.89 in. (73.5 mm)	
		Depth: 7.11 in. (180.6 mm)	
Product Type	AMC Storage	Advanced RAID Controller	
		PCle Gen3 x4 or x8	
		SATA/SAS at 6Gb/s per lane	
		RAID level 0, 1, 5, and 6	
		RAID spans 50, 60 and 10	
Standards			
AMC	Туре	AMC.1 PCle Gen3	
Module Management	IPMI	IPMI Version 2.0	
Configuration			
Power	AMC628	14W	
Environmental	Temperature	Operating Temperature: 5° to 60° C (Air flow requirement is to be greater than 200 LFM)	
		Storage Temperature: -40° to +70° C with the Disk	
	Vibration	1G, 5-500Hz each axis	
	Shock	30Gs each axis	
	Relative Humidity	5 to 95 percent, non-condensing	
Front Panel	Interface	Dual mini-SAS SFF-8088 x4	
	LEDs	IPMI Management Control	
		Activity	
	Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Linux, Windows	
Other			
MTBF	MIL Handbook 217-F > TBD Hrs.		
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		
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Trademarks and Logos	respective owners. AdvancedMC <sup>TM</sup> and the AdvancedTCA <sup>TM</sup> logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.		

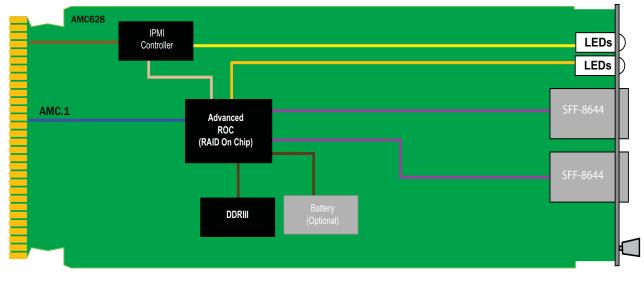


FIGURE 1. AMC628 Functional Block Diagram

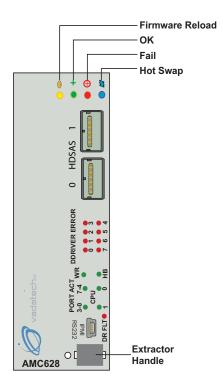


FIGURE 2. AMC628 Front Panel

## **ORDERING OPTIONS**

#### AMC628 - AOC - DOO - OHJ

A = PCle	D = Battery*	
1 = x4 2 = x8	0 = None 1 = Included	
		H = Operating Temp
		0 = Commercial (0° to +65°) 1 = Industrial (-20° to +70°) 2 = Military (-40° to +80°)
C = Front Panel Height		J = Conformal Coating
1 = Reserved 2 = Mid-Height 3 = Full-Height		0 = None 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic
$^{\star}$ With Battery option the panel must be F	-ull-Height	



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