ATCA Rear I/O Transition Module

ART116

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KEY FEATURES

- ATCA rear I/O Module for Blades (i.e. Sun Microsystems Netra Blade CP3260, CP3220, VadaTech ATC114, etc.)
- DVI-I interface (VGA and DVI-D)
- Resolution @ 1920x1200
- Dual removable on board 2.5” SAS/SATA Disk
- Disks can run as independent or as RAID 0 or 1
- Two port USB 2.0 high speed (480Mbit/s)
- Front Blade Dual GbE to RJ-45
- Front Management RS-232 to RJ-45
- IPMI 2.0 Management Controller
- RoHS compliant

The ART116 is a Rear Transition Module (RTM) module for ATCA Blades with Common Pinout definition on Zone three such as Sun Microsystems Netra CP3260, CP3220, VadaTech ATC114, etc. It brings expandability to the Blades/Carriers via Rear I/O. The ART116 has dual removable 2.5” SAS/SATA drive for storage, Management RS-232 port via RJ-45, DVI-I, and USB 2.0 high speed ports.

The dual disk can run as independent or as RAID 0 or 1.

Further, the ART116 routes the front Blade GbE ports, LAN management to the rear transition.

The GPU (Graphic Processing Unit) is 2D 24-bit color with up to 1920x1200 resolution with capability to drive Dual Monitor. The GPU has 128MB of DDR memory.

The USB is 2.0 with two ports of High-Speed (480Mbits/s).

The SAS HBA has one port routed to each of the on board disks. The Disks are removable for ease of maintainability.

AdvancedTCA®

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ATCA Rear I/O Transition Module

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Width: 12.687in. (322.25 mm)
		Depth: 3.701 in. (94.00 mm)
Type	**Rear Transition**	I/O Expansion
Standards		
ATCA	**Type**	ATCA Rear Transition
Configuration		
Power	**ART116**	typical 16W, 20W MAX
Environmental	**Temperature**	Operating Temperature: 0° to 65° C
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Rear Panel	**Interface Connectors**	Management RS-232
		Dual 1000 GbE (RJ-45)
		Dual USB (Type A receptacles)
		DVI-I via DVI Connector (VGA and DVI-D)
		Dual Disk SAS/SATA removable
		Management LAN (RJ-45)
	LEDs	LNK/ACT per GbE port
		IPMI Management
		SAS ACT/FLT
		LAN Management LNK/ACT
	Mechanical	Hot Swap Ejector Handle
Other		
MTBF	MIL Spec 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	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

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FIGURE 1. ART116 Functional Block Diagram

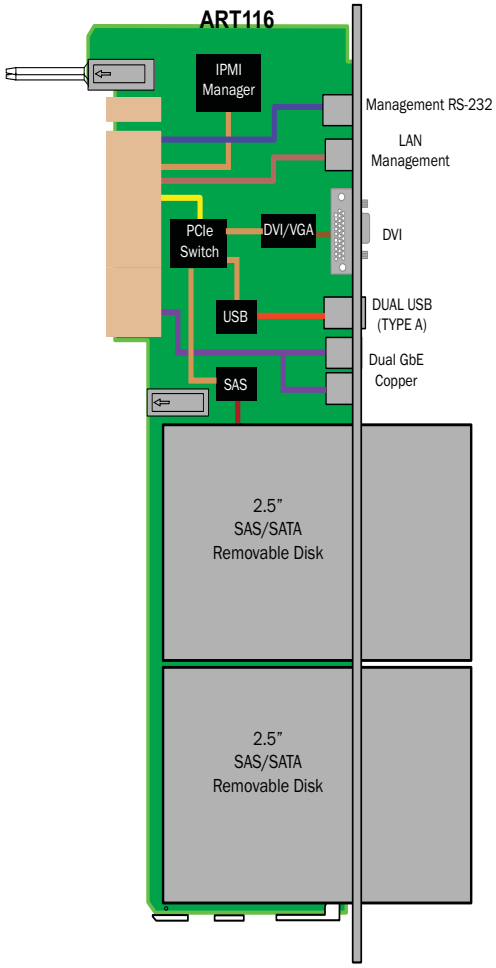

Table 1. Comparison chart between ART112/113/114/115/116

Model	No. of Disks	No. of Host GbE Ports	No. of USB ports	No. of host serial ports	No. of Graphic Interfaces	Serial Manage-ment	Ethernet Manage-ment	Front Panel SAS Expander	Front Panel PCIe Expander	10GbE Ports
ART112	1	2	3	0	Single VGA	Yes	Yes	Yes	No	0
ART113	1	2	3	2	Single VGA	Yes	Yes	No	No	0
ART114	2	2	0	0	None	Yes	No	No	Yes	0
ART115	1*	2	2	2	Dual DVI/VGA	No	Yes	No	No	2
ART116	2	2	2	0	Single DVI-I	Yes	Yes	No	No	No

*The ART115 and ART116 Disks are removable via the front panel

ORDERING OPTIONS

ART116 - A0C - DE0 - 00J

A = SATA Drive Capacity

0 = None
1 = 250 GB
2 = 500 GB
3 = Reserved
4 = Reserved
5 = Reserved
6 = Reserved
7 = 2.5" Solid State Drive (SSD)
(Contact sales for availability)

D = SAS Drive Capacity

0 = None
1 = Reserved
2 = 146 GB
3 = 300 GB
4 = 600 GB
5 = Reserved

E = Disk

0 = Single Disk
1 = Dual Disk**

C = Disk Temp

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

*Available for the SSD option only

**Both disks will be identical

J = Conformal Coating

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

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