ATCA Rear I/O Transition Module

ART114

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KEY FEATURES

- ATCA rear I/O Module for Blades (i.e. Sun Microsystems Netra Blade CP3260, CP3220, ATC114, etc.)
- Two on board 2.5” SAS/SATA Disks
- Disks can run as independent or as RAID 0 or 1
- QSFP connector for PCIe Expansion (the PCIe is Gen2)
- Front Blade Dual GbE to RJ-45 or LC Fiber (option for SX or LX)
- Front Blade RS-232 to Micro DB-9
- IPMI 2.0 Management Controller
- RoHS compliant

The ART114 is a Rear Transition Module (RTM) module for ATCA Blades or Carriers 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 ART114 has options for two 2.5” SAS/SATA drive for storage which can run as two independent disk or run in RAID 0 or 1. A single RS-232 ports for the host management via micro DB-9 and a QSFP connector for PCIe Expansion to other systems/carriers. The QSFP connector allows both Fiber or Copper cables to be utilized. The PCIe is Gen2.

Further, the ART114 routes the front Blade GbE ports to the rear. The GbE has options for copper or LC Fiber. The Fiber is available in SX (short reach) or LX (long reach).

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	**ART114**	typical 16 W, 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**	RS-232 (Micro DB-9)
		Dual 1000 GbE (RJ-45 for copper, LC style for Fiber)
		QSFP for PCIe Expansion
	LEDs	LNK/ACT per GbE port
		IPMI Management
		SAS ACT/FLT
		LAN Management LNK/ACT
	Mechanical	Hot Swap Ejector Handle
Other		
MTBF	MIL Hand book 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. ART114 Functional Block Diagram

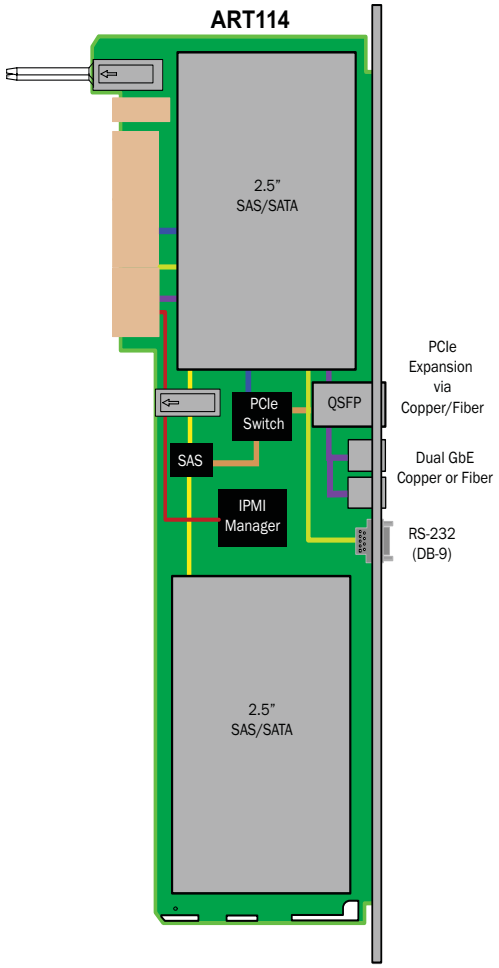

Table 1. Comparison chart between ART112/113/114/115

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

ART114 - A0C - DEF - G0J

A = SATA Drive Capacity
- 0 = None
- 1 = 250 GB
- 2 = 500 GB
- 3 = Reserved
- 4 = Reserved
- 5 = 2.5" Solid State Drive (SSD)

(Contact sales for availability)

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

D = SAS Drive Capacity
- 0 = None
- 1 = Reserved
- 2 = 146 GB
- 3 = 300 GB
- 4 = Reserved

E = Disk
- 0 = Single Disk
- 1 = Dual Disk **

F = GbE
- 0 = Copper
- 1 = Fiber LC SX
- 2 = Fiber LC LX

G = QSFP Configuration
- 0 = Up stream port (Zone three is down stream)
- 1 = Down stream port (Zone three is up stream)

J = Conformal Coating
- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

*Available for the SSD option only

**Both disks are identical

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