ART114

vadatech inc
™ THE POWER OF VISION

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
- 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, 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).

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

Advanced **TCA**®

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[TM] and the AdvancedTCA[TM] logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

FIGURE 1. ART114 Functional Block Diagram
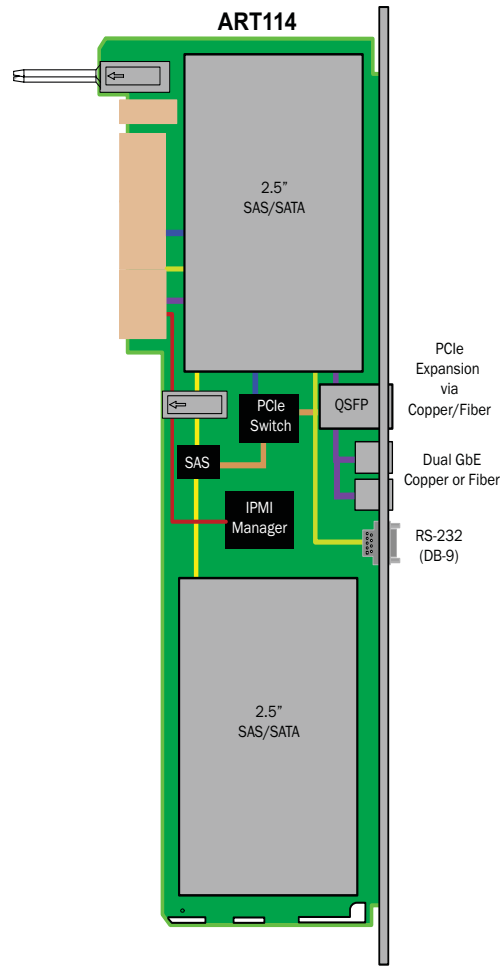
ART114

Table 1. Comparison chart between ART112/113/114

Model	No. of Disks	No. of Host GbE Ports	No. of USB ports	No. of host serial ports	Graphic Interface	Serial Management	Ethernet Management	Front Panel SAS Expander	Front Panel PCIe Expander
ART112	1	2	3	0	Yes	Yes	Yes	Yes	No
ART113	1	2	3	2	Yes	Yes	Yes	No	No
ART114	2	2	0	0	No	Yes	No	No	Yes

ORDERING OPTIONS

ART114 - ABC - DEF - 00J

A = SATA Drive Capacity

0 = None
1 = 120 Gbytes
2 = 200 Gbytes
3 = 320 Gbytes
4 = Reserved
5 = 2.5" Solid State Drive (SSD)
(Contact sales for availability)

B = SATA Disk Option

0 = Standard
1 = 24x7

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 = 73 Gbytes
2 = 146 Gbytes
3 = 300 Gbytes
4 = Reserved

E = Disk

0 = Single Disk
1 = Dual Disk **

F = GbE

0 = Copper
1 = Fiber LC SX
2 = Fiber LC LX

J = Conformal Coating

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

*Available for the SSD option only

**Both disks are identical

Document No_____ Date:. January 2009 Pass One