ART112

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KEY FEATURES

- ATCA rear I/O Module for Blades (i.e. Sun Microsystems Netra Blade CP3260, CP3220, VadaTech ATC114, etc.)
- VGA resolution @ 1920x1200 with 128MB
- SAS Expander via I-PASS connector for JBOD
- On board 2.5" SAS/SATA Disk
- Three port USB 2.0 high speed (480Mbit/s)
- Front Blade Dual GbE to RJ-45 or LC Fiber (option for SX or LX)
- Front Blade RS-232 to DB-9
- IPMI 2.0 Management Controller
- RoHS compliant

The ART112 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 ART112 has a 2.5" SAS/SATA drive for storage, a SAS Expander connector, VGA, and USB 2.0 high speed ports.

Further, the ART112 routes the front Blade GbE ports, RS-232 port and the LAN management to the rear transition. The GbE has options for copper or LC Fiber. The Fiber is available in SX (short reach) or LX (long reach).

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

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

The SAS HBA has one port routed to the on board disk and four ports routed to the I-PASS connector for expandability.

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	ART112	16 W
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 (DB-9)
		Dual GbE (RJ-45 for copper, LC style for Fiber)
		Triple USB (Type A receptacles)
		VGA (DB-15)
		SAS Expander (I-PASS)
		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^{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. ART112 Functional Block Diagram
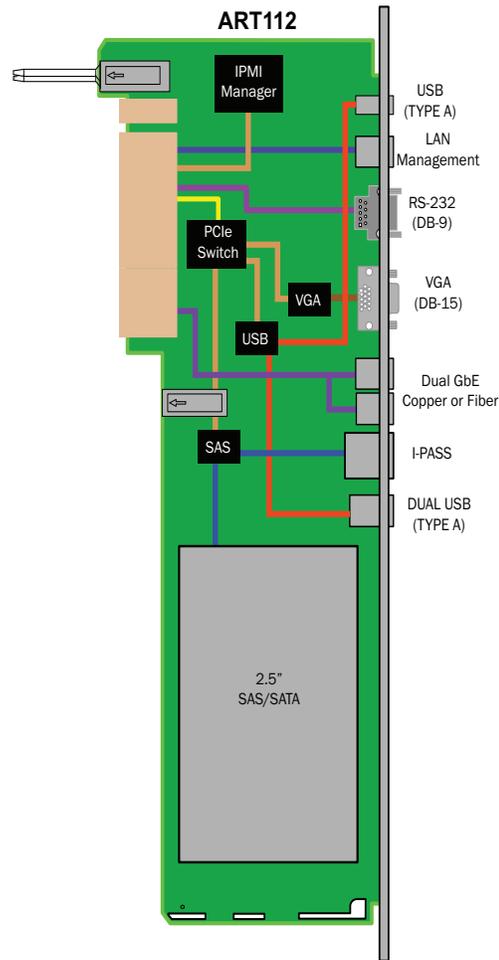
Table 1. Comparison chart between ART112/113/114/115

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

ART112 - 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 Gbytes
3 = 300 Gbytes
4 = Reserved

E = GbE

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

C = 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

J = Conformal Coating

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

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