V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-XS-AMC2 **Product Data Sheet**

Overview:

The **VRM-XS-AMC2** is an Advanced Mezzanine Card (AMC) which offers high-end ATM and IP services at an attractive price. XS-AMC2 provides termination, switching and interworking capabilities from any port to any port. XS-AMC2 performance and features are ideally suited for applications such as Wireless networking, Voice over Packet, DSLAM and Media Signaling Gateways.
Using the state of the art Wintegra™'s WinPath2™ Network Processor, XS-AMC2 is the perfect interface to handle both ATM and IP simultaneously. XS-AMC2 on-board 24K MIPS processor can run advanced protocols (e.g. 3GPP, SS7, ATM, VoIP) while the Network Processor handles all the data path. XS-AMC2 I/O ports are highly configurable and supports a mix of: OC-3/STM-1, OC-12/STM-4, 10BASE-T, 100BASE-TX, 100BASE-FX, 1000BASE-T and 1000BASE-X. Compliant with PICMG Advanced Mezzanine Card AMC.0, AMC.1 and AMC.2, XS-AMC2 can be used on AdvancedTCA™, MicroTCA, CompactTCA, PC, and proprietary platforms. XS-AMC2 architecture allows to bypass the bottleneck of current systems by handling all the processing on-board and performing segmentation and reassembly locally, which not only allows to offload the CPU on the carrier board but also optimizes bus transfers while doing termination.

Features:

- Form Factor: AMC
- Dimensions: 180.6 mm x 73.5mm Single/Mid-size
- PCIExpress: 1 lane
- PCI Bus (internal): 32 Bit, 3Mhz
- Host Bus: 64-bit, 66Mhz
- UTOPIA Bus: 16-bit, 50 MHz, L2
- Optical connector: LC (SFP)
- Telecom reference clock: 2KHz and multiple of 8KHz up to 70.66 MHz
- Communication ports: Quad OC-3/STM-1/ Single OC-12/STM-4 Dual Gigabit Ethernet
- Protocols: ATM and IP
- Flash Memory: 16 MB, 150 ns
- Host Memory: 128 MB, 200 MHz
- Parameter Memory: 128 MB, 200 MHz
- Packet Memory: 128 MB, 200 MHz
- Operating systems: Linux, Solaris, VxWorks
- Operating Temperature: 0 to 55C
- Storage Temperature: -40 to 85C
- Relative Humidity: 5% to 90% non-condensing
- Altitude: 0 to 15,000 feet
- Power consumption: 20 W max (est)

Configuration	A	B	C	D	E	F
OC-3 Front Panel	4	3	2	0	0	0
OC-12 Front Panel	0	0	0	1	1	1
GbE Front Panel	0	1	2	0	1	2
GbE Backplane	4	3	2	4	3	2

AMC ..... AMC.0, AMC.1 and AMC.2
IEEE 1149.1 ..... JTAG
IEEE 802.3 ..... CSMA/CD (EThernet)
PICMG® 2.15 ..... PTMC: PCI Telecom Mezzanine Card (without POS-PHY interface)
MSA SFP ..... MultiSource Aggreement SFP
RFC 1483 ..... Multiprotocol Encapsulation over AAL5
RFC 1577 ..... Classical IP and ARP over ATM
RFC 1619 ..... PPP over SONET/SDH
RFC 1661 ..... The Point-to-Point Protocol (PPP)

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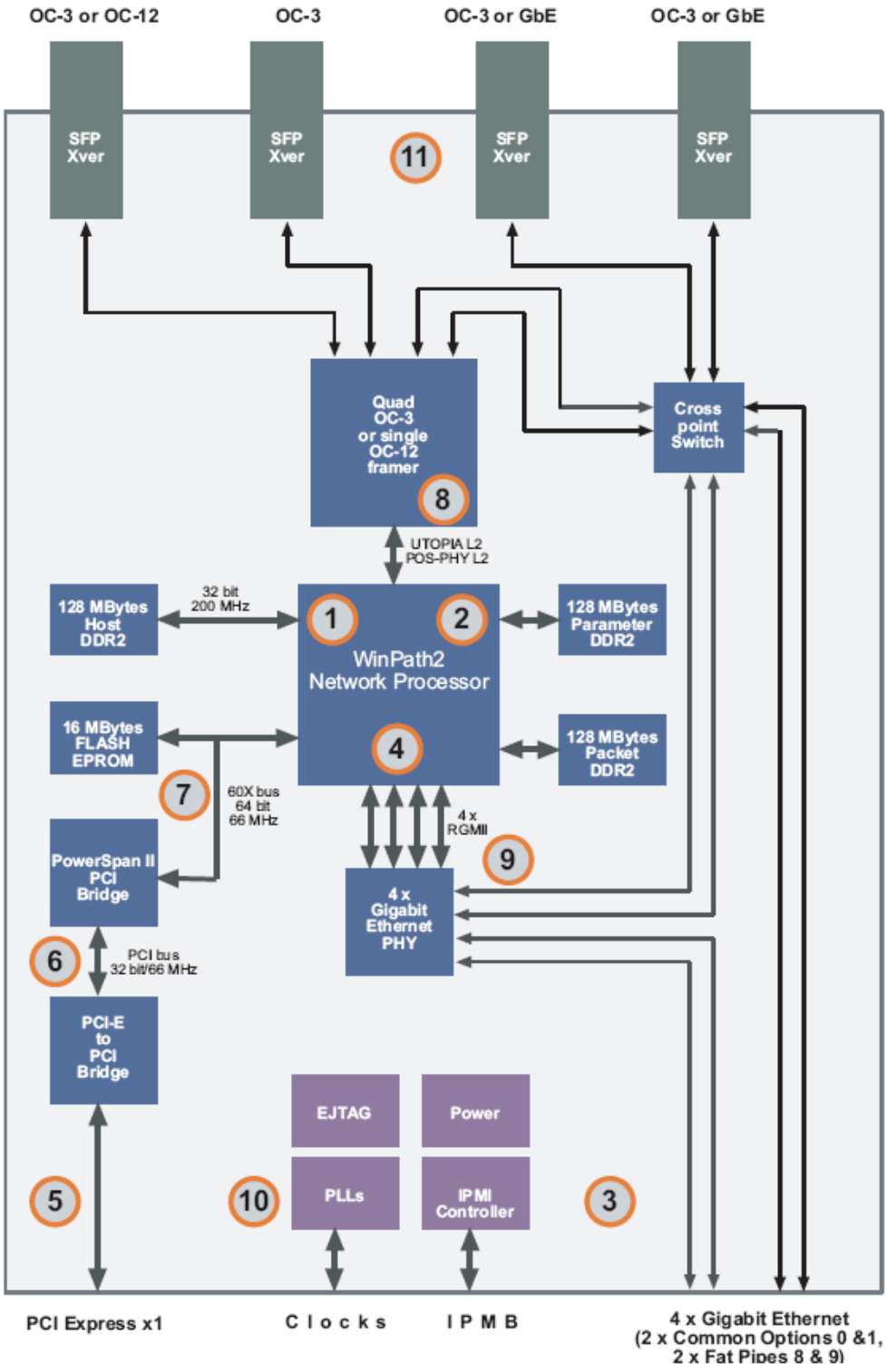

Ordering:

VRM-XS-AMC2: Quad OC-3/ STM-1, Single OC-12/STM-2, Dual Gigabit Ethernet ATM and IP AMC

VRM-XS-TP001: OC-3/STM-1 multi mode SFP transceivers

VRM-XS-TP002: OC-3/STM-1 single mode IR SFP transceivers

VRM-XS-TP004: OC-12/STM-4 single mode IR SFP transceivers

VRM-XS-TP007: Gigabit Ethernet single mode SFP transceivers

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