



# RME1021C 10U HIGH-POWER ENCLOSURE

DATASHEET

## FEATURES

- Ultra high cooling capacity for 145 W per slot at MSL
- Designed to meet commercial EMI standards
- Designed to cool extremely dense CPU and DSP boards
- 21-slot CompactPCI® (cPCI), VME64x, VME or VXS backplane available; plus 12-slot VPX REDI backplane
- IEEE 1101.10/11 compliant card cage
- Pac-2000® modular design
- Up to 2400 W embedded power
- Advanced cooling design:
  - Patented CoolSlot® air deflecting card guides optimize air flow
  - Front air inlet/rear air outlet cooling
- Thermal simulation of enclosure
  - Delivers 17.9 CFM per slot, sufficient cooling for 145 W per slot at MSL
- Designed to meet FCC/CE EMI (emissions and susceptibility standards)
- Front panel LED voltage indicators
- Includes handles, provisions for rack slides
- 80 mm rear transition area available with cPCI backplane options (any rear transition boards installed must utilize low profile handles)



**TABLE 1: TECHNOLOGY OVERVIEW**

PHYSICAL	
Width	17.25" (438.1 mm)
Height	17.47" (443.7 mm)
Depth	22.62" (574.5 mm), excluding handles
Weight	70 lbs. (31.8 kg)
CONSTRUCTION	
Extrusions	6063-T6 aluminum, precision grade with clear iridite plating
Card Guides	Molded plastic, Noryl N190X black (red for cPCI system slot), UL94-V0
Sideplates	.125" thick aluminum, 5052-H32, clear iridite plating
Tapped Strips	Carbon steel bar stock with zinc plating and supplementary chromate treatment
ESD Ground Clip	Beryllium copper, alloy C17400, 1/2 HT, with bright tin plating/MIL-T-10727
ENVIRONMENTAL	
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
Flammability Rating	UL94-V0
EMC	Designed to meet FCC Part 15, Subpart J, Class A; CISPR 22, Class A
Earthing	ESD ground clip designed to comply with the earthing requirements of IEEE 1101.11 Section 15, IEC 60950 Section 2, and PICMG 2.5 R1.0
AC INPUT	
15 A AC Line Input	<ul style="list-style-type: none"> <li>• 15 A line cord (U.S. 220 V style) provided</li> <li>• Rear line voltage inlet connector, RFI line filter, rear circuit breaker</li> <li>• AC Input: 220-240 VAC</li> </ul>
DC INPUT	
20 A AC Line Input	<ul style="list-style-type: none"> <li>• 20 A line cord (U.S. 220 V style) provided</li> <li>• Rear line voltage inlet connector, RFI line filter, rear circuit breaker</li> <li>• AC Input: 220-240 VAC</li> </ul>

Note: Contact factory for 400 Hz versions

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**TABLE 2: ORDERING INFORMATION**

		Part Number: RME1021C-	X-	XXXX
<b>Power Supply and Power Inlet</b>				
(1) = 1600 W internal embedded power supply mounted in rear, with 15 A rear AC inlet (2) = 2400 W internal embedded power supply mounted in rear, with 20 A rear AC inlet (3) = 2000 W power supply with 15 A inlet (for VPX)			X-	
<b>Backplane</b>				
(V721) = RACEway certified high power VITA 1.7 compliant VME64x 21-slot backplane with J0 connectors (VX21) = RACEway certified VME64x 21-slot backplane with J0 connectors (V021) = VME 21-slot backplane (VP21) = VITA 31.1 Gigabit Ethernet VME64x backplane; VITA 38 IPMB to all slots, 2 fabric slots, 19 node slots (XN21) = VITA 41.1 VXS InfiniBand™ Switch Fabric backplane; 21 slots, VITA 38 IPMB to all slots, 2 switch slots, 18 payload/VME64x slots, 1 standard VME64x slot (XR21) = VITA 41.2 VXS RapidIO® Switch Fabric backplane; 21 slots, VITA 38 IPMB to all slots, 2 switch slots, 18 payload/VME64x slots, 1 standard VME64x slot (XG21) = VITA 41.3 VXS Gigabit Ethernet Switch Fabric backplane, 21 slots, VITA 38 IPMB to all slots, 2 switch slots, 18 payload/VME64x slots, 1 standard VME64x slot (XP21) = VITA 41.4 VXS PCI Express Switch Fabric backplane, 21 slots, VITA 38 IPMB to all slots, 2 switch slots, 18 payload/VME64x slots, 1 standard VME64x slot (CP21) = PICMG 2.16 cPCI Packet Switching Backplane 5 V, 21 slots, PICMG 2.9 IPMB to all slots, no PCI bus, power on P1 and rear I/O on P2, 2 fabric slots, 19 node slots (see Note 1) (HP21) = PICMG 2.16 cPCI Packet Switching backplane 5 V, 21 slots, 17 slots H.110, PICMG 2.9 IPMB to all slots, no PCI bus, power on P1 and rear I/O on P2, 2 fabric slots, 19 node slots (see Note 1) (VPX12) = VITA 46/48 VPX REDI 1" pitch 12-slot backplane with VITA 46.1 VME bus and VITA 46.10 RTM				XXXX

**Notes:**

1. For 3.3 V add -3 to the end of the part number
2. Consult your Atrenne representative for VME or VME64x rear transition area card guides

## WARRANTY

This product has a one year warranty.

## CONTACT INFORMATION

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