Atrenne
A Celestica Company

RME821C 8U ENCLOSURE
DATASHEET

FEATURES

- High-quality ruggedized construction

- Compact stackable design for vertically mounted card

- Cooling up to 60 W per slot

- Easy migration from commercial version to deployable military version

- Custom configurations and integration services available

- 19" Rackmount enclosure, 8U high

- 21-slot CompactPCI® (cPCI), VME64x, VME and VXS backplanes available

- IEEE 1101.10/11 compliant card cage

- Pac-2000® modular design

- Up to 1200 W embedded power

- Advanced cooling design:
  - Patented CoolSlot® air deflecting card guides optimize airflow
  - Front air inlet/rear air outlet cooling

- Thermal simulation of enclosure:
  - Basic cooling option delivers 210 LFM per slot, sufficient cooling for 40 W per slot
  - High-performance cooling option delivers 310 LFM per slot, sufficient cooling for 60 W per slot

- Designed to meet FCC/CE EMI (emissions and susceptibility standards)

- Supports 80 mm rear transition boards or RACEway rear mezzanine

- Includes handles, provisions for rack slides

- Mounting for two internal hard drives behind rear I/O plate

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	17.25" (438.15 mm)
Height	13.97" (354.84 mm)
Depth	22.62" (574.55 mm), excluding handles
Weight	50 lbs

CONSTRUCTION	
Extrusions	6063-T6 aluminum, precision grade with clear iridite plating
Sideplates	.125" thick aluminum, 5052-H32, clear iridite plating
Card Guides	Molded plastic, Noryl N190X black (red for cPCI system slot), UL94-V0
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

CONSTRUCTION	
Flammability Rating	UL94-V0
Shock/Vibration	MIL-S-901/MIL-STD-167-1 [GR-63-CORE (NEBS)]
Environmental	MIL-STD-810
Temperature	· Operating: -20 to +40 °C · Storage: -40 to +85 °C
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
EMC	Designed to meet FCC Part 15, Subpart J, Class A; CISPR 22, Class A
Earthing	ESD ground clip designed to comply with IEEE 1101.11 Section 15, IEC 60950 Section 2, and PICMG 2.5 R1.0

TABLE 1: TECHNOLOGY OVERVIEW (continued from previous page)

15 A AC LINE INPUT
·   15 A line cord (U.S. 110 V style) provided ·   Rear line voltage inlet connector, RFI line filter, rear circuit breaker ·   AC Input: 100-120 VAC
20 A AC Line Input
·   20 A line cord (U.S. 110 V style) provided ·   Rear line voltage inlet connector, RFI line filter, rear circuit breaker ·   AC Input: 100-120 VAC

TABLE 2: ORDERING INFORMATION

Part Number: RME821C-	X	X-	XXXX
POWER SUPPLY AND POWER INLET			
(1) = 750 W internal embedded power supply mounted in rear, with 15 A rear AC inlet (2) = 1200 W internal embedded power supply mounted in rear, with 20 A rear AC inlet	X		
COOLING			
(S) = Standard cooling for 40 W per slot (H) = High-performance cooling for 60 W per slot		X-	
BACKPLANE			
(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)			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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