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Hybricon® RME21 10U Enclosure



Features

- High-quality ruggedized construction
- Cooling for up to 85 W per slot AC and DC line inputs available
- Supports full 21-slot backplane with unobstructed rear transition slots
- Custom configurations and system integration services available
- Pac-2000® modular design
- 19" rackmount enclosure
- CompactPCI® (cPCI), VME64x, and VME backplanes
- Patented CoolSlot® air deflecting card guides optimize air flow
- Front panel power switch (DC enable), front reset switch handles
- Supports optional front accessible peripheral
- Hot swap removable fan tray with 274 CFM cooling capacity, mounted below card cage
- 350 LFM average airflow
- Optional fan speed controller reduces acoustic noise and provides locked rotor failure detection and LED
- 15 A line cord (U.S. 220 V style) provided
- 20 A line cord (U.S. 110 V style) provided
- Rear line voltage inlet connector, RFI line filter, rear circuit breaker

Technology Overview

| Physical | |
|--|---|
| Width | 17.38" (441.45 mm) |
| Height | 17.47" (443.74 mm) |
| Depth | 21.00" (533.40 mm), excluding handles |
| Weight | 40 lbs |
| Construction | |
| Card Cage | IEEE 1101.10/11 compliant card cage |
| Extrusions | 6063-T6 Aluminum, precision grade with clear iridite plating |
| Sideplates | .090" thick aluminum, 5052-H32 with 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 |
| Power | |
| Power Supply | Up to 1800 W pluggable or embedded power |
| DC Input | 48 VDC nominal, 36-72 VDC range |
| Two rear filtered terminal blocks | |
| Integral Or-ing diodes for 48 VDC inputs | |
| Environmental | |
| Safety Agencies | Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950 |
| Shock/Vibration | MIL-S-901/MIL-STD-167-1 Telcordia GR-63-CORE (NEBS) |
| Flammability Rating | UL94-V0 |
| EMI/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 |



Table 2: Ordering Information

| | Part Number: RME21- | X | X | X- | XXXX |
|--|---------------------|---|---|----|------|
| Power Supply | | | | | |
| (1) = 1000 W internal embedded power supply mounted in rear (2) = 1600 W internal embedded power supply mounted in rear (3) = Wired for (3) 600 W Hot Swap front-mounted 1U high AC power supplies mounted below bottom fan tray (see Note 1) (4) = Wired for (3) 600 W Hot Swap front-mounted 1U high 48 VDC power supplies mounted below bottom fan tray (see Note 1) (5) = Wired for (3) 600 W Hot Swap front-mounted 1U high AC power supplies with I2C mounted below bottom fan tray (see Note 1) (6) = Wired for (3) 600 W Hot Swap front-mounted 1U high 48 VDC power supplies with I2C mounted below bottom fan tray (see Note 1) | | X | | | |
| Power Inlet | | | | | |
| (A) = 20 A AC Inlet (recommended for 1000 W AC power supply configurations with 115 V line) (B) = 15 A AC Inlet (recommended for 1600 W AC power supply configurations with 220 V/240 V line) (C) = Dual 50 A DC Inlet terminal blocks (recommended for DC power supply configurations) | | | X | | |
| Cooling | | | | | |
| (1) = Bottom 1.5U fan tray with 274 CFM high capacity fan (2) = Bottom 1.5U fan Tray with 274 CFM high capacity fans plus fan controller with speed control and fan fail LED (see Note 2) | | | | X- | |
| Backplane (see Note 3) | | | | | |
| (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 4) (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 4) (V021) = VME 21-slot backplane (VX21) = VME64x 21-slot backplane with J0 connectors (V721) = RACEway certified high power VITA 1.7 compliant VME64x 21-slot backplane with J0 connectors (VP21) = VITA 31.1 Gigabit Ethernet VME64x backplane, VITA 38 IPMB to all slots, 2 fabric slots, 19 node slots | | | | | XXXX |

Notes:

- Hot Swap power supplies must be ordered separately for configurations 3-6
- Fan controller is not available with 1000 W power supply option
- Consult factory for VME or VME64x rear transition area card guides
- For 3.3 V add -3 to P/N

Table 3: If enclosure is configured for 1U Hot Swap power supplies (options 3-6 in Table 2), must select one or more of the following power supplies, ordered separately

| Part Number | In-Rack Accessory |
|-------------|---|
| 270-050-01 | 110/220 VAC input Hot Swap power supply, 1U high |
| 270-050-02 | 48 VDC input Hot Swap power supply, 1U high |
| 270-050-03 | 110/220 VAC input Hot Swap power supply, 1U high, I2C |
| 270-050-04 | 48 VDC input Hot Swap power supply, 1U high, I2C |
| 099-100 | Blank 1U high power supply filler plate |

Notes:

- Must order a total of 3 power supplies and/or filler plates for Hot Swap configurations
- Ensure that AC or DC type of power supply matches the type of power inlet that was selected above.
- More than one power supply may be required per enclosure

Table 4: If enclosure is **not** configured for 1U Hot Swap power supplies (options 1-2 in Table 2), must select one or more of the following power supplies, ordered separately

| Part Number | In-Rack Accessory |
|--------------|---|
| 095-322-0611 | 1U blank filler plate-entire chassis width |
| 099-099 | 1U peripheral mount unit supporting two 3.5" drives and one 5.25" drive |

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