535 SERIES

9U RACKMOUNT/ BENCHTOP ENCLOSURE

FEATURES AND BENEFITS

- Redundant IPMI system manager

- cPCI 2.16 fabric backplane with two fabric switch slots and legacy 64b/33 MHz bus

- RoHS and NEBS Level 3-compliant

- Hot-swap 400- or 600-watt power supply

- Front-replaceable, speed-controlled and monitored fan tray

- 19" or 23" rack-mountable

- 15.75" H x 12" deep enclosure

The 535 Series 9U Rackmount/Benchtop Enclosure from Atrenne is designed for embedded, telecommunications, development, testing, military, and measurement applications in which high availability is required in a high performance open architecture. The 535 Series Enclosure provides an RoHS-, NEBS Level 3-, and CompactPCI 2.16-compliant switch fabric platform that houses an IPMI system manager and fabric technology.

With redundant IPMI system management cards, dual AC or DC input, and 600W or 400W PICMG 2.11 power supplies, the 535 Series Enclosure provides the system integrator with the flexibility to design a system using both legacy bus-based and next-generation fabric baseboards.

At the heart of the system are two PICMG 2.9 IPMI-compliant system managers in an over/under slot configuration. The IPMI system managers are integrated into the chassis electronics to provide a fully managed environment that includes the cooling unit, system temperature, power supplies, fabric switches, and boards.

The switch fabric backplane delivers a maximum data throughput of over 40 Gbits/second and contains ten 2.16 fabric node slots (eight slots contain the 64-bit/33 MHz PCI bus) and two switch slots to ensure forward and backward compatibility. The 535 Series Enclosure chassis is designed to meet the requirements of NEBS Level 3, FCC-B, CE and UL, and is completely RoHS-compliant. The chassis comes standard with front- and rear-panel mounted ESD jacks and a pair of recessed rack adaptors that set the entire rack back two inches to create a cable management area for the front of the CompactPCI cards.

The 535 Series Enclosure cooling system features an evacuation cooling design supported by a front-removable fan tray with three high-powered, speed-controlled fans that are monitored by the IPMI system manager. Airflow is front intake with rear exhaust with an average of 400 LFM per slot to all node, switch, and power supply slots.

DESIGN SPECIFICATIONS:

Physical
- 15.75" (9U) High
- 17" Wide
- 12" Deep
- Weight is approximately 35 lbs
- .09" Light weight 5052-H32 aluminum alloy
- Black medium texture finish per Fed-STD 595-27038

Backplane
- CPCI 2.16 13 slot right justfied optional 5V or 3.3V Keys
- 2 switch fabric slots
- 2 3U over/under Chassis Management Slots

Subrack
- Front Loading 6U x 160mm
- Rear Loading 6U x 80mm
- IEEE 1101.10 & IEEE 1101.11 Compliant

Indicators/Controls
- Rear On/Off power Switch
- ESD Jack Front & Rear

Rear Panel
- Power input
- Ground Lug
- ESD Jack

Thermal Management
- Monitored hot pluggable fan tray with three 200 CFM DC brushless ball bearing blowers
- Front air intake, upper rear exhaust

Designed to Meet
- BELLCORE
- FCC Class A/B
- UL1950
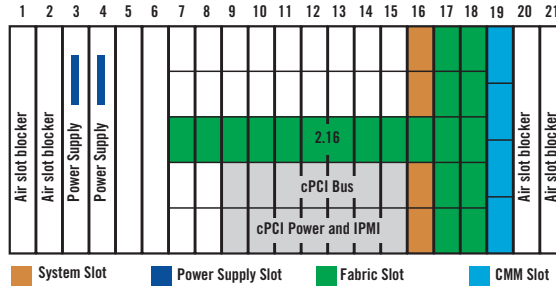- CSA 22.2
- PICMG 2.0 Rev. 3.0
- CE

Reliablity
- MTBF: >50,000 POH
- One-year limited warranty

Peripheral Cards Supported
- 6U x 160mm 4 to 12HP
- Shielded Front Panels
- Front Accessible and Embedded HDD, Floppy, CDROM, DAT, etc.
- Configurable to meet your needs. See options sheet or consult factory

CMM Options
- One Intel ZT7102 Chassis Management Module
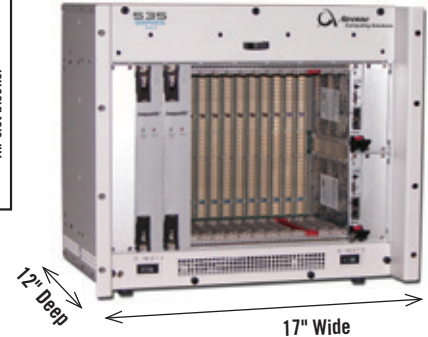- Two Intel ZT7102 Chassis Management Modules

System Slot	Power Supply Slot	Fabric Slot	CMM Slot

Power Supply Subsystem
- 6U X 8HP
- Takes up 2 slots
- Input Current: AC 90-264VAC, DC 36-75Vdc
- Output Current: (see chart below)

400W	600W
+5V @ 50A	+5V @ 50A
+3.3V @ 50A	+3.3V @ 65A
+12V @ 12A	+12V @ 6A
-12V @ 4A	-12V @ 3A

Environmental

	Operating	Storage/Transit
Temperature:	0 to 50°C (32 to 122° F)	-20 to +60°C (-4 to 140° F)
Humidity:	-20 to 90% @ 50°C (122° F) non-condensing	5 to 95% @ 50°C (122° F), non-condensing
Altitude:	15,000 ft. (4,572m.)	50,000 ft. (15,240m.)

Acoustical   < 55 dba Typical

PART NUMBERING / ORDERING INFORMATION:

535 9 X X X X X S K - 0 0 X

Series

Height
9 = 9U = 15.75"

Power Supply
A = 1 AC 400W Power Supply
B = 2 AC 400W Power Supplies
C = 1 AC 600W Power Supply
D = 2 AC 600W Power Supplies
E = 1 DC 400W Power Supply
F = 2 DC 400W Power Supplies
G = 1 DC 600W Power Supply
H = 2 DC 600W Power Supplies

Backplane CPU Slot
RX7M = CPCI 2.16 13 slot right justified (5V Keys, 10 node slots, 2 switch fabric slots and 2 3U over/under Chassis Management Slots)

RV7M = CPCI 2.16 13 slot right justified (3.3V Keys, 10 node slots, 2 switch fabric slots and 2 3U over/under Chassis Management Slots)

Chassis Management Modules
A = 1
B = 2

19" EIA Rack Adapters Front/Mid mount

Stocking Unit

Example: 5359ARX7MSK-00B is a 535 Series, 9U high with:
- One 400W Plug-in AC Power Supply
- CPCI 2.16 CMM 13 slot right justified (10 node slots, 2 switch fabric slot and 1 over under CMM slot, 5V keys)
- Two Chassis Management Modules

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