505 SERIES

COMPACTPCI 9U RACKMOUNT/ BENCHTOP ENCLOSURE

FEATURES AND BENEFITS

- 15.75"H (9U) x 17"W x 12"D

- 21-slot 6U x 160mm/6U x 80mm IEEE 1101.10/1101.11 compliant compactPCI Subrack

- Hot swap, N+1 350W power options

- Hot pluggable tach-alarm-monitored fan tray with 3-93 CFM fans

- Power monitoring LEDs for compactPCI voltages

- Multiple plug-in peripheral options/configurations available

The 505 Series CompactPCI 9U Rackmount/ Benchtop Enclosure from Atrenne is a configurable, midrange solution for prototype and deployed environments in embedded, telecommunications, development, testing, military, and measurement applications.

The 505 Series Enclosure features a 19" W x 14" H x 12" D with 21 6U x 160mm front-accessible slots and 21 6U x 80mm rear transition slots that allow for a variety of configurations. The chassis is designed to support hot-swap, N+1 350W front-pluggable power supplies and AC or DC input. A front-pluggable positive pressure cooling scheme includes (3) 12 VDC 93 CFM fans and tach alarm output with low MTTR and high reliability. Front panel controls/indicators include a DC inhibit switch and backplane voltage LEDs and Fan Status, as well as an ESD jack. Designed with telecom and NEBS compliance in mind, the rear I/O panel has an AC/DC power switch, ESD jack, and ground stud.

DESIGN SPECIFICATIONS:

Physical
- 15.75" (9U) high
- 17" wide
- 12" deep
- .09" light weight 5052-H32 aluminum
- Black medium texture finish per Fed-STD 595-27038

Backplane
- VME64x 12-slot ABG (with P0 option)
- VME64x 5-slot ABG (with P0 option)
- VITA 41 12-slot ABG
- CPCI 8-slot right justified with H.110
- CPCI 2.16 8-slot right justified with H.110 (7 node slots and 1 switch fabric slot)
- CPCI 5-slot right justified

Subrack
- Front loading 6U x 160mm
- Rear transition 6U x 80mm
- IEEE 1101.10 & IEEE 1101.11 compliant

Indicators/Controls
- Rear on/off power switch
- Front DC Inhibit switch
- CompactPCI power LEDs
- Fan monitoring LED
- ESD jack

Rear Panel
- Power input
- Ground lug
- ESD jack

Thermal Management
- Monitored hot pluggable fan tray with three 93 CFM DC brushless ball bearing fans.
- Front air intake, upper rear exhaust.

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

Peripheral Bay Options
- 12HP X 6U (1-CD-ROM takes up 3-slots)
- 8HP X 6U (1-FLOPPY, 1-HD takes up 2-slots)
- 8HP X 6U (2-HD takes up 2-slots)

Peripheral Cards Supported
- 6U x 160mm 4 to 12hp
- Shielded front panels
- Front accessible and embedded HDD, Floppy, CD-ROM, DAT, etc.
- Configurable to meet your needs. See options sheet or consult factory.

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

Power Supply Subsystem
- 6U X 8HP
- Takes up 2-slots
- Input current: AC 90-264VAC
- 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	

14" High
12" Deep
17" Wide

PART NUMBERING / ORDERING INFORMATION:

505 9 X X X X X S K - X X 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

Backplane CPU Slot
NL05 = VME64X 5-slot ABG (with P0 option)
NL12 = VME64X 12-slot ABG (with P0 option)
VX12 = VITA 41 12-slot ABG
RX75 = CPCI 5-slot right justified (5V Keys)
RV75 = CPCI 5-slot right justified (3.3V Keys)
RY78 = CPCI 8-slot right justified w/ H110 (5V Keys)
RW78 = CPCI 8-slot right justified w/ H110 (3.3V Keys)
RF78 = CPCI 2.16 8-slot right justified (5V Keys, H110, 7 node slots and 1 switch fabric slot)
RE78 = CPCI 2.16 8 slot right justified (3.3V Keys, H110, 7 node slots and 1 switch fabric slot)

Stocking Unit

6U x 12HP peripheral shuttle (takes up 3-slots) provisions for one 5 1/4" Front Accessible Drive
A = No shuttle
B = One shuttle
C = Two shuttles
D = Three shuttles

6U x 8HP peripheral shuttle (takes up 2-slots) provisions for one 3 1/2" front accessible and one 3 1/2" embedded drive
A = No shuttle
B = One shuttle
C = Two shuttles
D = Three shuttles

6U x 8HP peripheral shuttle (takes up 2-slots) provisions for two 3 1/2" embedded drives
A = No shuttle
B = One shuttle
C = Two shuttles
D = Three shuttles

19" EIA rack adapters front/mid mount

5059ARY78FK-ABB is a 505 Series, 9U high with:
- One 400W plug-in AC power supply
- 8-Slot hot swap, right justified backplane with H.110 bussing, and 5V keys installed
- One embedded device, and One 6U x 8HP shuttle for one 3 1/2" front accessible
- One 6U x 12 HP shuttle for one 5 1/4" Front accessible device

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