

FEATURES AND BENEFITS

- 17.5" H (10U) x 17" W x 16" D
- 21-slot 6U x 160mm / 6U x 80mm
- IEEE 1101.10 / 1101.11-compliant
CompactPCI subrack
- Power: 1200 W N + 1 AC or dual DC input
- IPMI
- Cooling
Front removable
NEBS filtered
Push/pull redundant
- Multiple plug-in peripheral options configurations available
- 21-slot 2.16 / 2.17 configurations available



555 SERIES

10U RACKMOUNT/ BENCHTOP ENCLOSURE



The 555 Series 10U Rackmount/Benchtop Enclosure from Atrenne is a high-powered IPMI-enabled enclosure specially designed for development, industrial, embedded and datacom, telecom and military applications.

With a 17.5" H x 16" D industrial enclosure featuring 21 6U x 160mm front-accessible slots and 21 6U x 80mm rear transition slots, the 555 Series Enclosure can be easily configured to meet a variety of computing needs. The 555 Series Enclosure is designed to support hot swap and N+1 with three front-pluggable 600W power supplies and AC or Dual DC input. Redundant front-pluggable

positive pressure/evacuation cooling scheme with six 3-wire 12 VDC 93 cfm fans and tach alarm output provides low MTTR, high reliability, and redundancy. Front-accessible power supplies are equipped with DC Good/Fail LEDs, as well as individual cooling fans. All components including power supplies, fans, and the backplane support IPMI management and alarming. ESD jacks are located on the front and rear panels to accommodate telecom and NEBS compliance.

The 555 Series Enclosure can be purchased with a variety of options including various paint colors, custom logos, and fabric backplanes.

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10U RACKMOUNT/ BENCHTOP ENCLOSURE

DESIGN SPECIFICATIONS:

Physical

- 17.5" (10U) high
- 17" wide
- 16" deep
- Weight is approximately 45 lbs w/o cards
- .09" Light weight 5052-H32 aluminum
- Black medium texture finish per Fed-STD 595-27038

Monolithic Backplane

- PICMG 2.0 rev 3.0
- Hot Swap PICMG 2.1 rev 1.0
- Telephony (H.110) PICMG 2.5 rev 1.0
- Supports 32- and 64-bit PCI architectures
- VI/O Selectable +5.0 or +3.3V
- Coding keys for 3.3 & 5 volt operation
- 2.16 rev 1.0

Subrack

- 21-slot front loading 6U x 160mm
- 21-slot rear transition 6U x 80mm
- IEEE 1101.10 & IEEE 1101.11 compliant

Indicators/Controls

- Rear on/off power switch
- Front and rear ESD jacks
- Front fan status

Rear Panel

- Power input
- Ground lug

Power Supply Subsystem

- Inputs:
 - AC 85 – 264 VAC
 - Dual DC 40 – 75 VDC
- Output Current up to (2) 600 Watts:
 - +5V 70A
 - +3.3V 50A
 - +12V 10A
 - 12V 3A
 - 5V 3A
- Power backplane
- IPMI compliant
- Self cooled

Thermal Management

- Dual hot pluggable fan tray with three 93 CFM DC brushless ball bearing fans/fan tray.
- Front/side air intake, upper rear/side exhaust
- Filter available

Designed to Meet

- NEBS III
- FCC Class A
- UL60950
- CSA 22.2
- PICMG 2.0 Rev. 3.0
- CE

Reliability

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

Peripheral Cards Supported

- 6U X 160mm 4 to 12 HP
- Shielded front panels
- Front accessible and embedded HDD, floppy, CDROM, DAT, etc.
- Configurable drive bays
- Consult factory

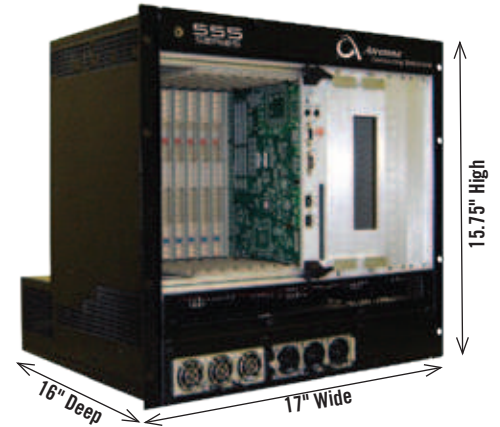
Environmental

Operating Temperature: 0 to 50°C (32 to 122° F)
Humidity: -20 to 90% @ 50°C (122° F) non-condensing
Altitude: 15,000 ft. (4,572m.)

Acoustical < 55 dba Typical

Storage/Transit

-20 to +60°C (-4 to 140° F)
 5 to 95% @ 50°C (122° F), non-condensing
 50,000 ft. (15,240m.)



Note: Total number of slots can not exceed 21 slots. Considerations must be given to the quantity of power supplies, CompactPCI backplane slots, and peripheral options so as not to exceed the maximum slot count.

PART NUMBERING / ORDERING INFORMATION:

555 0 X X X X X F K - X X X

Series

Height
0 = 10U = 17.5"

Power Supply
A = 3 AC Power Supplies
B = Dual DC Power Supplies

Backplane CPU Slot
R = Right Justified
P = Left Justified
C = Center Justified

Telephony Bussing
V = w/o H.110 3.3V Keys
W = w/ H.110 3.3V Keys
X = w/o H.110 5V Keys
Y = w/ H.110 5V Keys

Form Factor
6 = 6U (10.5")
(Add one additional slot for power connection)
7 = 7U (12.25")
(ATX power connectors on the bottom)

Pressurized Cooling

Slot Count 2-8

6U x 12HP Peripheral Shuttle:
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:
Provisions for One 3 1/2" Front Accessible Drive and One 3 1/2" Embedded Drive
A = No Shuttle
B = One Shuttle
C = Two Shuttles
D = Three Shuttles

6U x 8HP Peripheral Shuttle: 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

Example: 5550ACY7PFK-ABB is a 555 Series, 10U high with three 1200W AC input power supply, 16-Slot hot swap, center justified backplane with H.110 bussing, one 6U x 8HP shuttle for one 3 1/2" front accessible and one embedded devices and one 6U x 12HP shuttle for one 5 1/4" front accessible device.

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