

FEATURES AND BENEFITS

- Rugged militarized/industrial PC/AT enclosure
- Bolted or welded construction
- Up to 20 slots (4HP)
- Power supplies up to 1000 W
- 20.5" deep
- Disk drive provisions optional
- Top-load enclosure
- EIA rackmountable
- 8U to 15U high



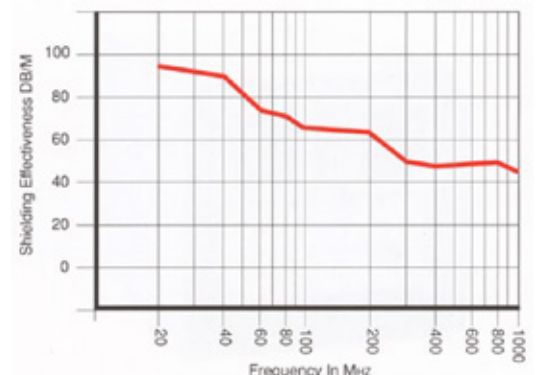
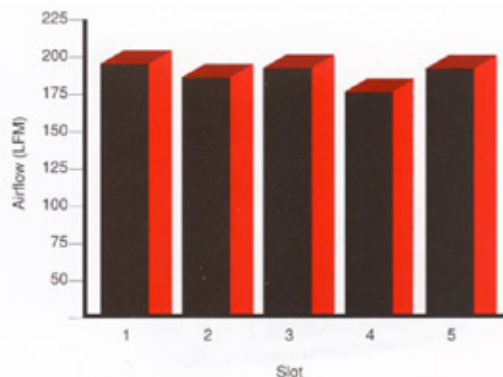
710 SERIES

RUGGED MILITARY PACKAGING



The 710 Series Rugged Rackmount Enclosure from Atrenne is engineered for dependability in some of the most extreme environments involving airborne, shipboard, and ground mobile applications. Designed as a rugged solution to meet a broad spectrum of military standards, the 710 Series Enclosure has a long-standing reputation as a commercial-off-the-shelf (COTS) product that can be easily configured to meet the most challenging deployed applications.

The 710 Series Enclosure is configured as a 19" rackmount system capable of supporting a wide variety of industry bus standards such as VPX, VME, VME64x, VXS, VXI, and CompactPCI, as well as custom bus backplane technologies and application-specific I/O requirements. Available in heights ranging from 8U to 15U, the Enclosure is configurable for either a rigid mount or shock-isolated card cage. The 710 Series Enclosure utilizes an aluminum, welded design incorporating EMI "honeycomb" filters and environmental gaskets on all access panels to meet stringent emissions requirements. Power supply options provide a wide range of inputs from 350 to 1300 Watts. The internal rack infrastructure is designed to meet IEEE1101.10/11.



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DESIGN SPECIFICATIONS:

Physical

- Depth = 20.5" (520,7) 26.0" for card height over 9U
- Height - See table
- Width - 17" (431,8) w/o EIA Ears

System Options

- Redundant Power Supplies
- Hot Swap Power Supplies
- Hot Swap Backplanes
- System Monitor
- Fan Monitor
- High Temperature Warning

Backplanes

- 100% Level 3 Elec. Test
- 100% Press-Fit Construction
- VME, VME Hot Swap, MBII, MBI
- See backplane section for complete list of options

Electrical

- Frequency 47-63 Hz (400 Hz available)
- Voltage 90 -132, 180 - 264 VAC (Auto range available)
- Circuit breaker
- Power - 350 - 1300 Watts
- See table for options
- Power factor correction available

Cooling (see figure right)

- Triple 90 CFM fans
- 12V DC brushless sealed ball bearing
- Optional air filter
- Current draw 500 mA/fan typ.
- 130 CFM available

Structure

- .125" (3,175) thick 5052-H32 aluminum
- Clear chromate MIL-C-5541 CL3
- Outside surface painted fed. std. 26307 navy grey
- Anti-vibration fasteners
- Conductive interfaces

Reliability

MTTR	MTBF
PSU = .5 hrs	= 100,000 hrs
FAN = .25 hrs	= 50,000 hrs
B/P = 1 hr	= 1,000,000 hrs

Environmental

- Operating Temperature 0° to 50°C
- Storage Temperature -20° to 85°C
- Humidity - Less Than 95% noncondensing
- Acoustical - <45dba Typ.

See Also

- Backplanes
- Power Supplies
- Enclosure Options/Accessories
- W-W Boards/Extenders
- Cabinets
- Integration
- Rugged Products (COTS)
- Telecom Products

Height

Number of Slots	Peripheral Options	Enclosure Height Required
▼	▼	▼

VME, VXI, MBII

2-20	None	7U
2-12	Peripheral Bay	7U
2-20	5 1/4 Half Heights	8U
2-20	5 1/4 Full Heights	10U

NOTE 1: All mounting provisions are for 5 1/4 drives – power cabling is included with all drive mounting options.

NOTE 2: Peripheral bays are recessed behind the front panels

NOTE 3: Consult factory for evacuation style enclosures

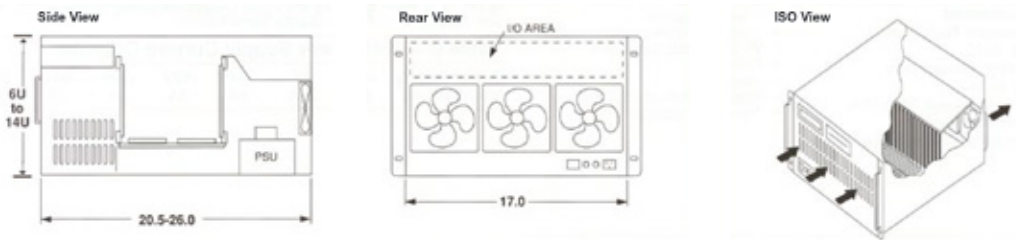
Power Supply Current Outputs

Power Supply	+5V	-5V	+12V	-12V
350 Watts (F)	50A	2A	8/12A	4A
500 Watts (H)	80A	2A	10/16A	10A
750 Watts (K)	120A	2A	12/20A	10A
500 Watts (H)	150A	10A	20/30A	10A

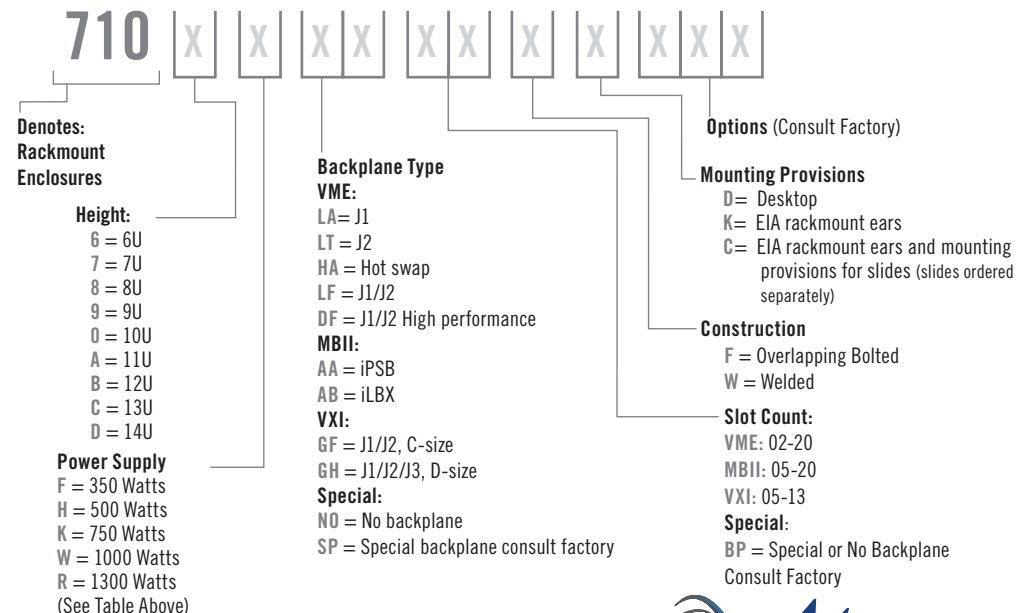
NOTE: All power supplies are quad output switching power supplies.

VXI Power Supply Current Outputs

Power Supply	+5V	-5V	+12V	-12V	+24V	-24V	-2V
600 Watts (M)	50A	25A	4A	3A	3A	3A	10A
1300 Watts (R)	70A	28A	16A	16A	8A	8A	30A



PART NUMBERING / ORDERING INFORMATION:



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