

FEATURES AND BENEFITS

- Rugged militarized/ industrial PC/AT enclosure
- Welded-seam construction
- EMI gasketing and honeycomb filtering on all air intake and exhaust
- Designed to meet RTCA/DO-160D environmental requirements
- Designed to meet EMI MIL-STD-461E requirements
- Mounting options for up to 10-slots PCI/ISA
- Rear I/O configurations including parallel, serial ports, and keyboard/mouse connections
- 7.00" H (4U) x 17" W x 22" D rackmount aluminum enclosure
- 350-Watt switching power supply
- Front -accessible CD-ROM, HDD, and floppy drive with provisions for a second HDD in the 6-slot chassis
- Front AC indicator, time meter, and circuit breaker
- Heater control system allows for use in the harshest environments as low as -40°C
- Available single-board computers, I/O, and expansions

786 SERIES

RUGGED MILITARIZED / INDUSTRIAL PC ENCLOSURE



The 786 Series Rugged Militarized/Industrial PC Enclosure from Atrenne is a proven performer in the airborne and vehicle operations of the military. It is designed to excel in the harshest environments while meeting operating cost objectives.

With a 7"H () x 17" W x 22" D rugged rackmount enclosure, the 786 Series Enclosure is constructed of continuous seam-welded, lightweight .09" thick aluminum sheet metal.

The 786 Series Enclosure consists of a shock- and vibration-isolated sub-chassis to meet RTCA/DO-160D requirements, and is fully shielded to meet MIL-STD-461E requirements. The 786 Series Enclosure utilizes an electronics heater control system which heats the chassis to a safe operating temperature even in environments as low as -40°C , while also cooling in warmer environments via dual 44 CFM 12 VDC fans pressurizing from front to rear.

The 786 Series Enclosure includes custom I/O rear panels, a front circuit breaker, an AC indicator, a time meter, and a power supply fuse. A 350-Watt power supply is standard. With mounting capabilities for up to a 10-slot PCI/ISA backplane, the 786 Series Enclosure provides users the ability to mount an industry-standard HDD, floppy drive, and CD-ROM accessible through a hinged front panel.

As a value-priced enclosure, the 786 Series meets the needs of embedded and applied computing OEMs and system integrators while addressing the demanding requirements of the worldwide datacom/telecom, CTI, industrial automation, military/aerospace, and medical markets. The 786 Series Enclosure is designed to meet RTCA/DO-160D and EMI MIL-STD-461E requirements.

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DESIGN SPECIFICATIONS:

Physical

- 22" Deep
- 7" High
- 17" Wide
- (178mm x 432mm x 559mm)
- Weight is 35 lbs approximately

Structure

- 19" EIA-310 rackmount standard with provision for slides.
- Provisions for rear rack mount flanges.
- Clear chromate aluminum finish.
- Chassis front panel and access panel are painted FED-STD Navy Gray
- Rugged continuous welded seam construction from lightweight .125 thk 5052-H32 Al

Motherboard

- Optional Motherboard configurations
- 8 slot with 7 PCI slots
- 8 slot with 4 PCI slots
- 6 slot with 4 PCI slots and optional second HDD
- 6 slot with 3 PCI slots and optional second HDD

Peripheral Bays

- One CD Rom, Front Accessible
- One, floppy drive Front Accessible
- One HDD buried, Front Accessible

Indicators/Controls

- Front guarded Circuit Breaker
- Front AC elapsed time meter
- Front AC indicator and optional heater indicator
- Front shielded power supply fuse

Reliability

- MTBF: >50,000 POH, full load @ 40°C.
- Two Year Limited Warranty

Rear Panel I/O

- MIL-STD-461E compliant line filter
- Screw type AC entry connector
- Custom configurable EMI tight I/O panels

Input Voltage

- AC Input: 90-132/180-264 VAC, switch-select, 47 to 63 Hz

Thermal Management

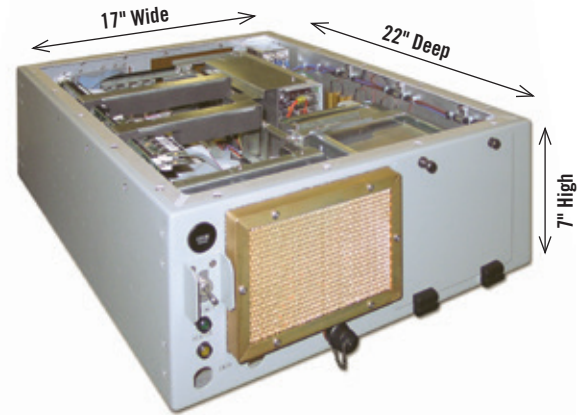
- Front to back pressurized cooling via 2-44cfm 12vdc fans.
- Air intake and exhaust shielded with MIL-STD-461 compliant honeycomb filters
- Custom Electronics heater control system to allow operation down to -40°C

Regulatory Designed to Meet:

Environmental requirements of RTCA/D0160D.
Safety: UL/cUL recognized to 1950 CSA, C22.2, No. 950, CE Mark EN60950.
EMC: Designed to meet the requirements of MIL-STD-461E
ESD: EN61000-4-2,3 (1998), EN61000-4-4 (1995-10).

Environmental

	Operating	Storage/Transit
Temperature:	-40°C to 55°C	-20°C to +60°C (-4°F to 140°F)
Humidity:	95% humidity condensing	95% humidity condensing
Altitude:	15,000 Feet (3,048 Meter)	50,000 ft. (15,240 m.)
Shock:	6G 11ms per Paragraph	7.2 RTCA /D0160D
Vibration:	Robust and random 10HZ-2000Hz per paragraph	8.5.2 RTCA /D0160D
Acoustical	< 55 dba Typical	



Power Supply Current Outputs

Output Current	Power
+5V	350W
+3.3V	40A
+12V	20A
-12V	4A
	3A

(NOTE: 250 watts max combined output from +5V and +3.3V)

PART NUMBERING / ORDERING INFORMATION:

786 4 X X X X X X X - X X X

Series:

Height:
4U = 7.00"

Power Supply
A = 350 Watts A/C
D = 350 Watts D/C

Backplane Type

- 0807 = 8 Slot with 7 PCI
- 0804 = 8 Slot with 4 PCI
- 0803 = 8 Slot with 3 PCI
- 0604 = 8 Slot with 4 PCI
- 0603 = 6 Slot with 3 PCI

Paint

- A = Front, top, bottom & sides
- F = Front only

Options

- 3310117-01 = Slide Rail Kit, Solid Bearing, + 6" Extender Bracket (18"-24")
Also Available Call Factory
24" Rackmount, EIDE/SCSI Peripherals, Keyboard, PCI Graphics Card, etc. (Consult Factory)

Mounting Provisions

- C = 19" EIA Rack Adapters & Mounting Provisions for slides (Slides ordered separately)
- D = Benchttop and feet (No EIA)
- K = 19" Rackmount front and rear Adapters

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