

ECONOMICAL DESKTOP /RACKMOUNT CHASSIS

Model 4608 supports 3U x 160mm, 6U x 160mm or split 3U/6U x 160mm boards in this decorative but economical freestanding or 19-inch rack mountable enclosure system. This enclosure can even support multiple systems by using split or discrete backplanes with a common or dedicated power supply to each "segment."

Its flush front subrack and rear transition module (RTM) subrack comply with IEEE 1101.1/.10 and /.11, the latter configurable for 3U or 6U x 80mm modules. Subrack support for legacy VME boards (IEEE 1101.1) is available. Available backplanes include VME64x, CompactPCI®, VXS, VPX, and OpenVPX, or, NIS' backplane design team can modify a standard model or create a custom design for you.

Power system options include AC or DC input; internally mounted or PICMG 2.11 plug-in styles; single, dual, triple or quad outputs up to 1kW.

The 4608 features aggressive forced-air cooling with an ingress fan tray located below the front subrack; an optional rear-mounted "pull" fan tray is available. Also optional is NOVA's System Environmental Monitor (SEM) that the user can locally or remotely monitor and control fan speed, temperature, input/output power and user-definable I/O. Both HTTP and SNMP protocols are included in the SEM's firmware.



**Typical Applications
for Model 4608**



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MODEL 4608



- **Meets IEEE 1101.1, 1101.10 and 1101.11 mechanical and EMC requirements**
- **Up to 21-slot Eurocard backplane**
- **VME64x, VPX/OpenVPX, CompactPCI® or custom backplanes**
- **Flush front subrack with RTM subrack**
- **Heavy-duty, anti-rotation extrusions and single piece card guides enhance chassis strength**
- **6U x 160mm plug-in board or 3U/6U split subrack configurations; 3U or 6U x 80 RTM**
- **Aggressive forced-air cooling system**
- **AC or DC plug-in or internal/fixed power supply options**
- **System Environmental Monitor controls system temperature, fan speed, power supply enable/disable; monitors outputs; Ethernet; HTTP & SNMP protocols**

SPECIFICATIONS

ENVIRONMENTAL CHARACTERISTICS

Temperature, operating	-20°C to +70°C
Temperature, non-operating	-40°C to +85°C
Humidity	10% to 95%, non-condensing
Altitude, operating	-1,500 ft. to 25,000 ft.
Altitude, non-operating	-1,500 ft. to 40,000 ft.
Vibration, operating	designed to meet MIL-STD-810G Method 514.5, Procedure I - General Vibration (Transportation - Secured Cargo)
Vibration, non-operating	same as operational vibration
Shock, operating	designed to meet MIL-STD-810G, Method 516.5 Procedure VI
Shock, non-operating	designed to meet MIL-STD-810G, Method 516.5 Procedures I, IV and VI
EMC	designed to meet IEEE 1101.10
ESD	MIL-STD-1686A

PHYSICAL CHARACTERISTICS

Size	8U H (13.97 in.) x 19 in. W x 14 in. D
Weight	Varies by configuration
Mounting configurations	19 in. EIA-310-D rackmount or tabletop

ELECTRICAL CHARACTERISTICS

Input Power, standard	90 to 264 VAC @ 47-63 Hz
Inrush current	Varies with installed power supply
Input power connector	NEMA 5-15P connector options include: MIL-C-26482 (MS3472 or MS3474)
Input Power, options	115 VAC @ 60/400 Hz 24, 48 or 72 VDC 18-36 VDC
Power Consumption	Varies with installed power supply
Power Supply types	One internal fixed type, or, 1 or 2ea 6U x 8HP PICMG 2.11 hot swap/N+1 modules, or, 1 to 4ea 3U x 8HP, PICMG 2.11 hot swap/N+1 modules (>2ea modules for dual backplane systems)

POPULAR CONFIGURATIONS

The following system configurations are available with a shorter lead time

95-4608-16425-500	8U crate with flush 6U x 160mm subrack/6U x 80mm RTM; dual 8-slot VME64x backplanes (w/PO); quad 3U x 8HP PICMG 2.11 hot swap/N+1 power supplies w/90-264 VAC @ 47-63 Hz input; rackmount
95-4608-21425-001	8U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 21-slot VME64x backplane (w/PO) installed; one internal 1kW power supply w/90-264 VAC @ 47-63 Hz input; rackmount
95-4608-21405-001	8U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 21-slot VME64x backplane (w/PO) installed; one internal 1kW power supply w/90-264 VAC @ 47-63 Hz input; tabletop
954608-16625-501	8U crate with flush 6U x 160mm subrack w/6U x 80mm RTM; 16-slot CompactPCI 2.1R3/2.16 backplane (13ea payload/2ea Fabric/1ea System slot); dual 6U x 8HP, 500 W, PICMG 2.11 hot swap/N+1 power supplies w/90-264 VAC @ 47-63 Hz input; rackmount
95-4608-17725-001	8U crate with flush 6U x 160mm subrack w/6U x 80mm RTM; 17-slot OpenVPX Development Backplane (14ea VPX/3ea VME64x); 1 kW fixed internal 90-264 VAC @ 47-63 Hz input power supply; rackmount

Additional Configurations Available Upon Request

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