

COTS 9U CONFIGURABLE RACKMOUNT CHASSIS WITH RECESSED SUBRACK

NOVA's new 4700 series of COTS powered subrack chassis ("Crate") offers users with a virtually unlimited number of configurations supporting 3U, 6U and 9U Eurocard plug-in boards. Model 4709 as shown in the photo is configured to support a 6U x 160 mm recessed front subrack, a 6U x 80 mm rear transition module (RTM) subrack, a single internal power supply, and choice of a VME, VME64x, VXS, VPX, OpenVPX or CompactPCI backplane up to 21 slots.

Forced-air cooling system options include fixed or front-access removable (LRU); "push" or "push-pull" configurations; tubeaxial, vaneaxial or blower types. NOVA's advanced baffling and plenum designs reduce internal air turbulence and vortex phenomena that result in inefficient airflow and selection of more expensive fan solutions than is necessary to maintain prescribed internal operating temperature.

Power supply options include fixed internal, redundant N+1, and PICMG 2.11 redundant/N+1 models. Standard input power options include VAC single and 3 Φ @ 47-63 Hz or 60/400 Hz; VDC standard selections include 24 and 48. Consult with NOVA to determine which model best meets your system's power needs and high-availability mode.

NOVA's μ P-based *System Environmental Monitor* (SEM) allows the user to locally or remotely configure, monitor and control, via onboard serial and Ethernet ports, critical operational parameters such as temperature, fan speed, input and output power; additionally, there are user-definable analog and digital channels available. HTTP and SNMP protocols are included in the SEM's firmware.

For more information on our wide range of capabilities, products, and services, please visit our web site at: www.novaintegration.com

MODEL 4709



- Meets IEEE 1101.1, 1101.10 and 1101.11 mechanical and EMC requirements
- VME, VME64x, VPX/OpenVPX, CompactPCI or custom backplanes offered
- Heavy-duty, antirotation extrusions and single-piece card guides enhance chassis strength
- Recessed front subrack with RTM option
- 3U, 6U and 9U plug-in boards in 160, 220, 340 and 400 mm Depths are supported
- Push-Pull air cooling with optional LRU fan trays
- 19 inch EIA-310 Rackmount
- AC and DC input power options
- Output power options up to 2.5kW
- Power supply types include fixed internal and plug-in/N+1 redundant/hot swap

SPECIFICATIONS

ENVIRONMENTAL CHARACTERISTICS

Temperature, operating	-20°C to +70°C
Temperature, non-op.	-40°C to +85°C
Humidity	10% to 95%, non-condensing
Altitude, operating	-1,500 ft. to 25,000 ft.
Altitude, non-op.	-1,500 ft. to 40,000 ft.
Vibration, operating	designed to meet MIL-STD-810G Method 514.5, Procedure I, 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	9U - Varies by configuration
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	customer selectable options include: NEMA 5-15P MIL-C-26482 (MS3472 or MS3474) Customer selectable
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	Internal/fixed Plug-in/hot swap N+1 per PICMG 2.11

POPULAR CONFIGURATIONS

95-4709-21425-001	9U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 15-slot VME64x backplane (w/PO); 850 W fixed internal 90-264 VAC @ 47-63 Hz input; rackmount
95-4709-21425-002	9U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 21-slot VME64x backplane (w/PO); 1kW fixed internal 90-264 VAC @ 47-63 Hz input; rackmount
95-4709-21425-500	9U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; dual 8-slot VME64x backplanes (w/PO); 4ea 3U x 8HP PICMG 2.11 plug-in/hot-swap 90-264 VAC @ 47-63 Hz input power supplies; rackmount
95-4709-21625-001	9U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 8-slot CompactPCI 2.1R3 backplane; 650 W fixed internal 90-264 VAC @ 47-63 Hz input power supply; rackmount
95-4709-21625-002	9U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 16-slot CompactPCI 2.1R3/2.16 backplane (13ea payload/2ea Fabric/1ea System slot); 1kW fixed internal 90-264 VAC @ 47-63 Hz input power supply; rackmount
95-4709-21725-003	9U crate with recessed 6U x 160mm subrack and 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

Line Drawings Available for Specific Configuration