

COTS 12U CONFIGURABLE RACKMOUNT CHASSIS WITH RECESSED SUBRACK

MODEL 4712

NOVA's new 4712 COTS powered subrack chassis ("crate") offers users a full 21 slots of Eurocard plug-in boards supporting sizes from 3U to 9U x 160mm or 220mm depths. Model 4712 as shown in the photo is configured to support twenty-one 6U x 160mm plug-in Eurocards via a recessed front subrack. Not shown in the photo is a 21-slot IEEE 1101.10/.11 compliant 6U x 80mm rear transition module (RTM) subrack.

Eurocard backplanes supported include VME64x, VXS, VPX, OpenVPX, CompactPCI®, modified custom or full custom backplane up to 21 slots. The 4712 easily supports single, dual, triple, even quadruple independent or redundant systems, each with its own power source.

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.

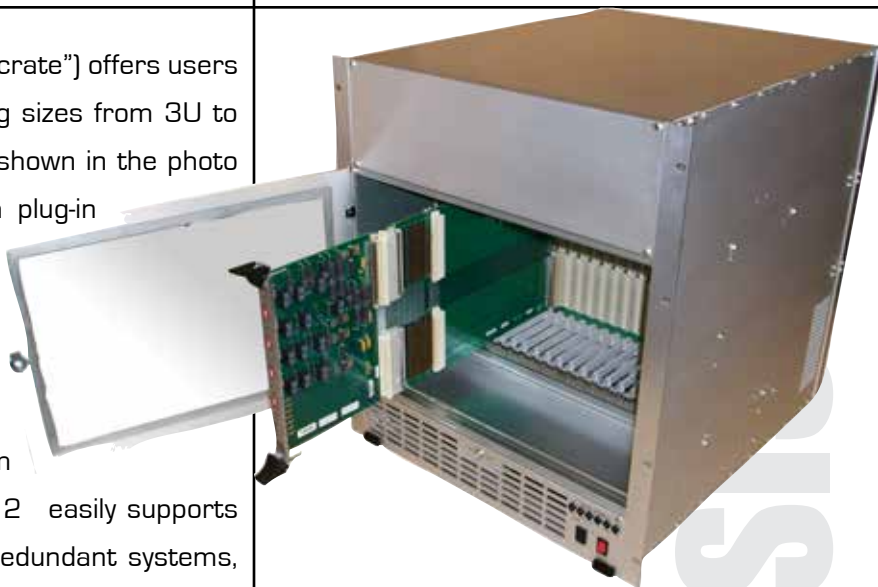
Power supply options include single or N+1 redundant/hot swap PICMG 2.11 models. Standard input power options include VAC single or 3Φ @ 47-63 Hz or 115 VAC @ 400 Hz; VDC options include 24, 48 and 72.

NOVA's *μP System Environmental Monitor* (SEM) allows the user to remotely configure, monitor and control via onboard serial and Ethernet ports, temperature, fan speed, input/output power. HTTP and SNMP protocols are included in the SEM's firmware.



Metromatics

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



- **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**
- **Board sizes supported include 3U, 6U and 9U x 160, 220, 340 and 400 mm depths**
- **Push-Pull air cooling with LRU fan trays**
- **Accommodates up to six peripheral drives**
- **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	.....21 in. H x 19 in. W (17.25 chassis) x 20 in.
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 @ 400 Hz 24, 48 or 72 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

95-4712-21425-001	12U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 21-slot VME64x backplane (w/PO); 850W internal 90-264 VAC @ 47-63 Hz input; rackmount
95-4712-21725-001	12U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; dual 6-slot OpenVPX Mesh backplanes; single, internal, 1kW, 90-264 VAC @ 47-63 Hz input; rackmount
95-4712-21625-500	12U crate with recessed 6U x 160mm subrack and 6U x 80mm RTM; 16-slot bridged CompactPCI® backplane; 2ea 500W, 6U x 8HP, PICMG 2.11 N+1 plug-in/hot-swap, 90-264 VAC @ 47-63 Hz input power supplies; rackmount

Additional Configurations Available Upon Request



System Environmental Monitor



For further information or pricing, please contact us:

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Line Drawings Available; Contact NOVA Integration Solutions