VectorPak*** Chassis / System Enclosures

VME / cPCI

Series 710 / 720

6U Horizontal Cards

hassis



Model 710 Two Piece (Subrack, Enclosure) shown with 5 Slot backplane and lighted System Reset

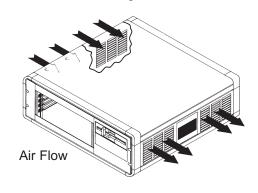


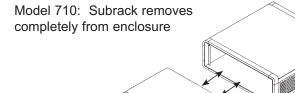
Model 720 Removable Internal Subrack

19.0" internal subrack slides in/out on metal tracks for maximum accessibility. Subrack assembly includes backplane, power supply and fans; it may be rack mounted separately (Model 720). Horizontal cards and space for up to three 3.5" drive bays. Two rear I/O ports, many power options (Page 9)



Rear View showing 2 slot rear I/O





Attractive & Extremely Rugged Benchtop/Desktop Outer Enclosures

VectorPak^{Im} outer enclosures are available in many standard sizes and colors. They are designed to house standard 19"W or similar rack devices including VectorPak^{Im} subracks and fan trays. They were developed for rugged military applications and are constructed of formed sheet and extruded aluminum. Protective rubber feet and rack mount hardware included. Recessed pocket or strap handles.



SE 1322D-01



SE 1322 3U x 22"D for 19"W Subrack

Rack Unit	H	eight	W	/idth	Depth		Internal
Part Number	Inside Dim.	Outside Dim.	Inside Dim.	Outside Dim.	Inside Dim.	Outside Dim.	Size
SE132216	5.20"	6.40"	17.80"	20.20"	16.00"	17.60" 23.60"	3U X 19" W
SE1322 SE1422	5.20" 5.20"	6.40" 6.40"	17.80" 17.80"	20.20" 20.20"	22.00" 16.00"	23.60 17.60"	3U X 19" W 3U X 19" W
SE1522	6.97" 10.47"	8.57"	17.80" 17.80"	20.20" 20.20"	22.00"	23.60" 17.60"	5U X 19" W 6U X 19" W
SE162216 SE1722	10.47	12.07" 13.82"	17.80"	20.20 20.20"	16.00" 22.00"	23.60"	7U X 19" W

VectorPaktm Chassis / System Enclosures

VME / cPCI



732 - 2U chassis shown front and back



732 - 3U chassis shown front and back



733 - 3U chassis with front removable door panel



4U, 7-slot 64x shown with hinged cover

Series 730

6U Horizontal Cards

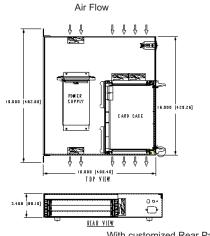
Series 730 accommodates VME and VME64X systems for horizontal loaded PC cards. There are three sizes accommodating backplanes with 2 slots to 12 slots. This ruggedized series allows you to customize the enclosure for front and rear covers with special punching, front or rear mounted sub-racks, painting and/or screening.

Features:

- · Low profile enclosures for horizontal mounted
- Ruggedized 19" rackmount enclosures 2U to 7U
- Accommodates any 6U backplane
- Cooling: side to side (push/pull) 4 ea 89 cfm axial 12VDC fans
- Front mounted Power and Reset switches with safety guards
- Painted Sandtex white or choice of many factory colors
- EMI/RFI power input filter and fuse
- Rear panel removable for custom I/O connector punching without expensive customization
- Designed to meet UL, CSA & TUV requirements



7U Model 12 Slot VME with hinged enlarged custom cover, chassis slides & 4" recessed cableway



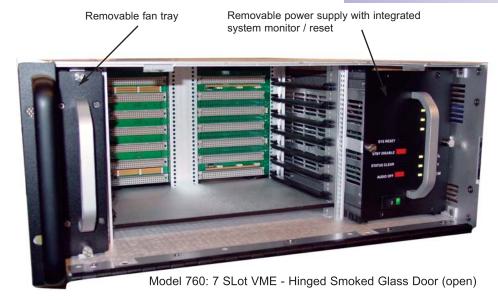
With customized Rear Panel

VectorPaktim Chassis / System Enclosures

VME / VXI

Series 760

6U Horizontal Cards





Vector System Monitor Integrated into removable power supply assembly

Additional Features:

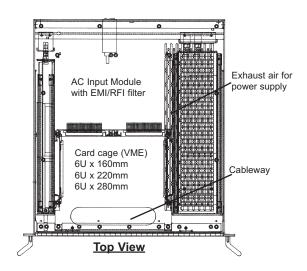
- High reliability-Low MTTR with track mounted, removable Fan Tray & Power Modules
- 7 Slot VME or VXI
- Cableway under card cage from front to rear
- 250 watt Power Supply standard, up to 600 watt available
- Power Supply Module has voltage Monitor Panel with tri-state LEDs for reporting in range voltages on +5V, +/- 12V
- Front Panels are painted black
- EMI/RFI suppression techniques employed throughout enclosure
- Handsome Lexan door, bottom hinged, top secured by two sturdy stainless steel latches - EMI/RFI shielding optional
- Track mounted Fan & Power modules align precisely with Din H-11 & 15 pin Connectors
- · Up to 280mm card depth



Model 760: 7 slot VME - Hinged Lexan door, closed

Environmental Specifications Cooling Model 760 1 ea., 60 CF

Operating Temp Storage Temp Humidity: 1 ea., 60 CFM fan for subrack 1 45 CFM fan for power supply 0°- 50°C (32° - 110°F) -20° - 85°C (-4° to 185°F) <95% Non-condensing



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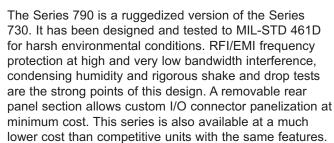
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VectorPaktm Chassis / System Enclosures Ruggedized VME/cPCL



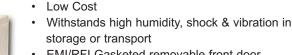
Series 790

6U Horizontal Cards





Ruggedized Series 792 with EMI/RFI shielded removable panel



EMI/RFI Gasketed removable front door

· MIL STD 461D compliant & certified

- 300 Watt embedded power supply, conditioned for high humidity
- 6U Monolithic 7 Slot Backplane (other slot sizes available, Pages 16 - 23)
- Painted with Federal Standard Grey
- Wall mounted fans for Push/Pull (4 fans,12VDC,89 cfm), side to side air flow
- Rear Panel removable for custom I/O connector punching
- Light weight
- Field tested



Ruggedized Series 790 Front view with door removed



Ruggedized Series 790 Front view with door

Chassis Environmental Specifications

Coo	lina	

Operating Temp Storage Temp Humidity - Storage or Transport Humidity - operating Shock & Vibration EMI/RFI

4 ea. 89 cfm DC axial fans side wall mounted, push/pull 0° - 50°C

-28.8°C - 85°C >95%, condensing, specially conditioned 30% to 70%

MIL STD 810E Per MIL STD 461

Environmental Test Specification - MIL STD 461D Standard

Testing Frequency Range Conducted Susceptibility (MIL STD 462, CS101 Radiated Emissions test (RS103) Altitude Test to MIL STD 810F Proc. 1&2 High Temperature testing (MIL STD 501.3, Proc 2) Low Temperature to MIL STD 501.3, Proc. 1&2 Humidity testing to MIL STD 810E 507.3, Proc. 3 Vibration & Shock

30 Hz 18 gHz 30 mHZ to 2 gHz; 1 gHZ to 18 gHz To 15,000 ft.

-28.8^oC

MIL STD 810E Method 514.4,

Physical Specifications

Power Input 4A fuse Rear Panel Removable panel for custom I/O conn. 8 thumb screws hold door Door, Fixed on EMi/RFI gasketed edges Weight 34 lbs., typ

> www.vectorelect.com 800-423-5659



Vector offers a system monitor to report electrical and air temperature conditions within our Series 400 and 760 VME or VXI enclosures. The Power Monitor has four functions:

Detection and Reset of SYSFAIL. A remote reporting capability can be provided via a DIN connector on the back of the enclosure.

+5V SBY indication and battery backup and recharge control circuits

Monitoring of primary voltages, +5V; +12V and -12V. Tri-color LED's report a voltage level within specification. When an interruption or spike occurs, LED's change from GREEN to RED and an audible alarm will sound. When a normal state resumes, the LED's change to AMBER and the audible alarm will go silent. The STATUS CLEAR switch will clear the amber indicator and reset to green.

The normal ranges measured are:

Nominal VDC	Min Limit	Max Limit	Bus
+5V	4.87	5.25	VME
+12	11.64	12.60	VME
-12	-11.64	-12.60	VME
-5VSBY	4.87	5.25	VME & VXI
-2	-1.90	-2.10	VXI
-5.2	-5.04	-5.46	VXI
+24	23.28	25.20	VXI
-24	-23.28	-25.20	VXI

Air Temperature Monitor:

A thermocouple circuit is placed at the exhaust fan(s) or other specific slot location(s) At 100 degreesF the circuit will send a signal to the system monitor panel activating a RED Air Temp indicator and sounding an audible alarm.



760 Monitor Panel

POWER SUPPLY SPECIFICATIONS

Standard universal 85 to 264VAC power input embedded power supplies currently offered (subject to change). Please contact Vector for more options or special requirements.

	ower Maximum	DC outputs		Minimum Load	
		; <u>+12V@16.6A</u> ; <u>-12V@</u>		None	
800W	<u>5V@70A</u> ; <u>3.3V@35A</u>	<u>\; +12V@16.6A; -12V@</u>	<u>16.6A</u>	None	Drive 1
600W	5V@70A; 3.3V@40A	<u>\; +12V@16.6A -12V@1</u>	16.6A	None	P.C.
400W	5V@20A 3.3V@20A	; <u>+12V@8.3A</u> <u>-12V@8.3</u>	<u>8A</u>	None	THE PERSON NAMED IN
250W	5V@40A; 3.3V@20A	<u>+12V@4A</u> <u>-12V@1.0A</u>		10% on +5V	ON SHAPE
					COPPOSED IN

AC to DC Plug-In, Hot Swap

The following 90-264 VAC input, 3U, 200W plug-in, hot-swappable power supplies, n+1 redundant, active current share power supplies PICMG 2.11 compliant and can be used in cPCI, VME or VME64x applications. No minimum load required. DC outputs of 5V@25A; 3.3V@35A +12V@8.0A; -12V@1.5A.

DC to DC Plug-In, Hot Swap

The following 18-28 or 36-72 VDC input, 3U, 200W plug-in, hot-swappable power supplies, n+1 redundant, active current share power supplies PICMG 2.11 compliant and can be used in cPCI, VME or VME64x applications. No minimum load required. DC outputs of 5V@25A; 3.3V@30A +12V@6.0A; -12V@0.5A.

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