



VectorPak™ Chassis / System Enclosures

VME / cPCI

Chassis

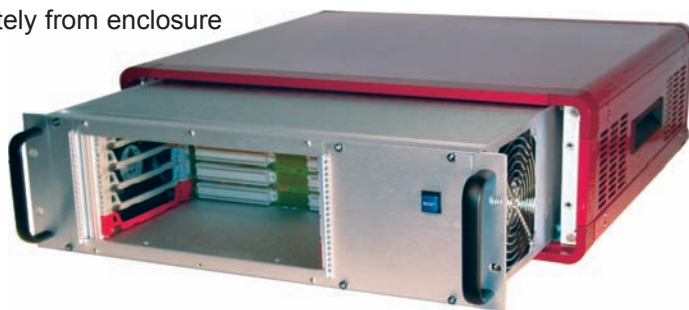


Model 710 Two Piece (Subrack, Enclosure) shown with 5 Slot backplane and lighted System Reset



Model 720 Removable Internal Subrack

Model 710: Subrack removes completely from enclosure

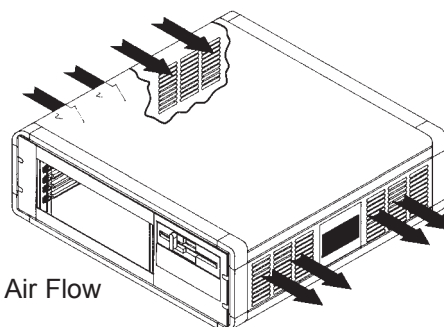


Series 710 / 720 6U Horizontal Cards

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)



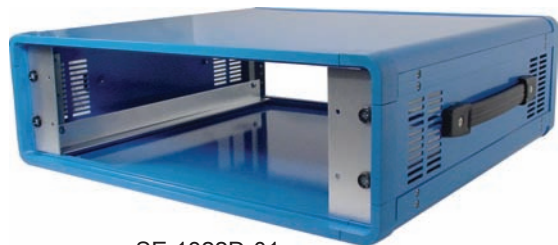
Rear View showing 2 slot rear I/O



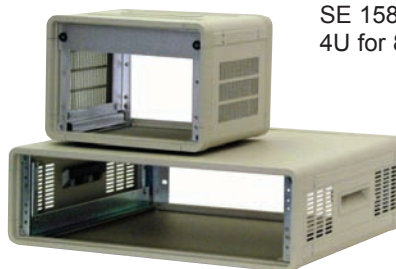
Air Flow

Attractive & Extremely Rugged Benchtop/Desktop Outer Enclosures

VectorPak™ outer enclosures are available in many standard sizes and colors. They are designed to house standard 19"W or similar rack devices including VectorPak™ 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 1588
4U for 8.4"W Subrack

SE 1322 3U x 21.80"D for 19"W Subrack

Rack Unit	Height		Width		Depth		Internal Size
Part Number	Inside Dim.	Outside Dim.	Inside Dim.	Outside Dim.	Inside Dim.	Outside Dim.	
SE132216	5.280"	6.410"	17.790"	20.220"	14.400"	16.060"	3U X 19" W X 14.4"D
SE1322	5.280"	6.410"	17.790"	20.220"	17.400"	19.060"	3U X 19" W X 17.4"D
SE1422	5.280"	6.410"	17.790"	20.220"	12.400"	14.060"	3U X 19" W X 12.4"D
SE1522	7.030"	8.160"	17.790"	20.220"	21.890"	23.550"	4U X 19" W X 21.9"D
SE162216	10.530"	11.660"	17.790"	20.220"	14.400"	16.060"	6U X 19" W X 14.4"D
SE1722	12.280"	13.410"	17.790"	20.220"	21.940"	23.600"	7U X 19" W X 21.9"D



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VECTOR ELECTRONICS & TECH., INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VECTOR ELECTRONICS & TECH., INC. IS PROHIBITED.

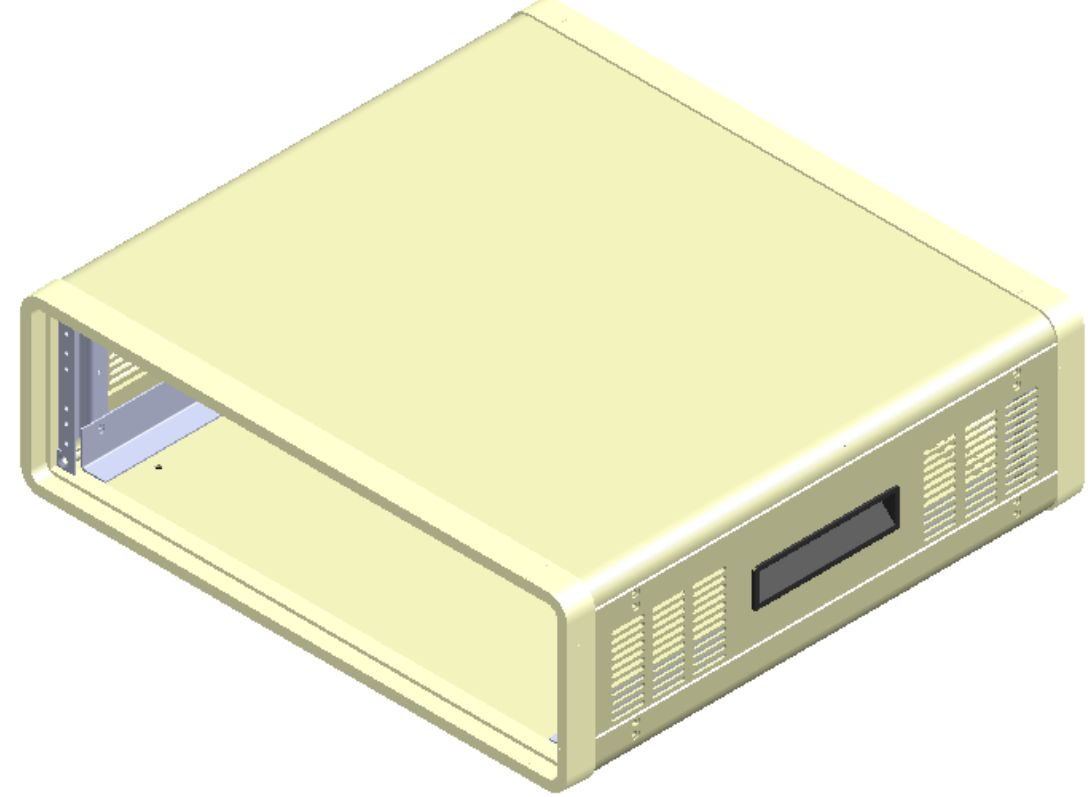
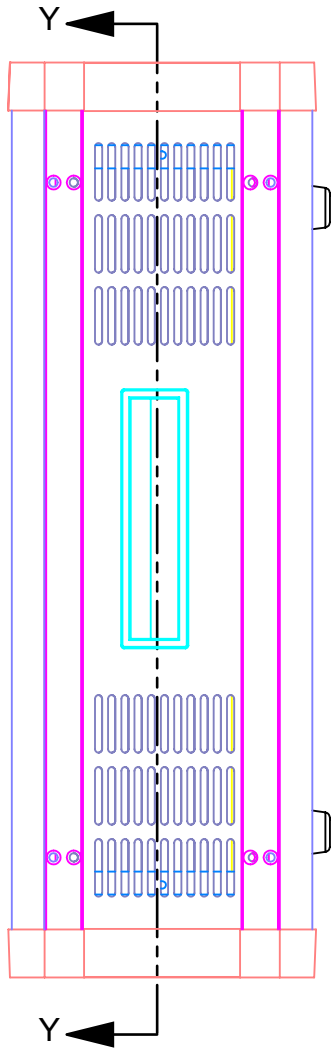
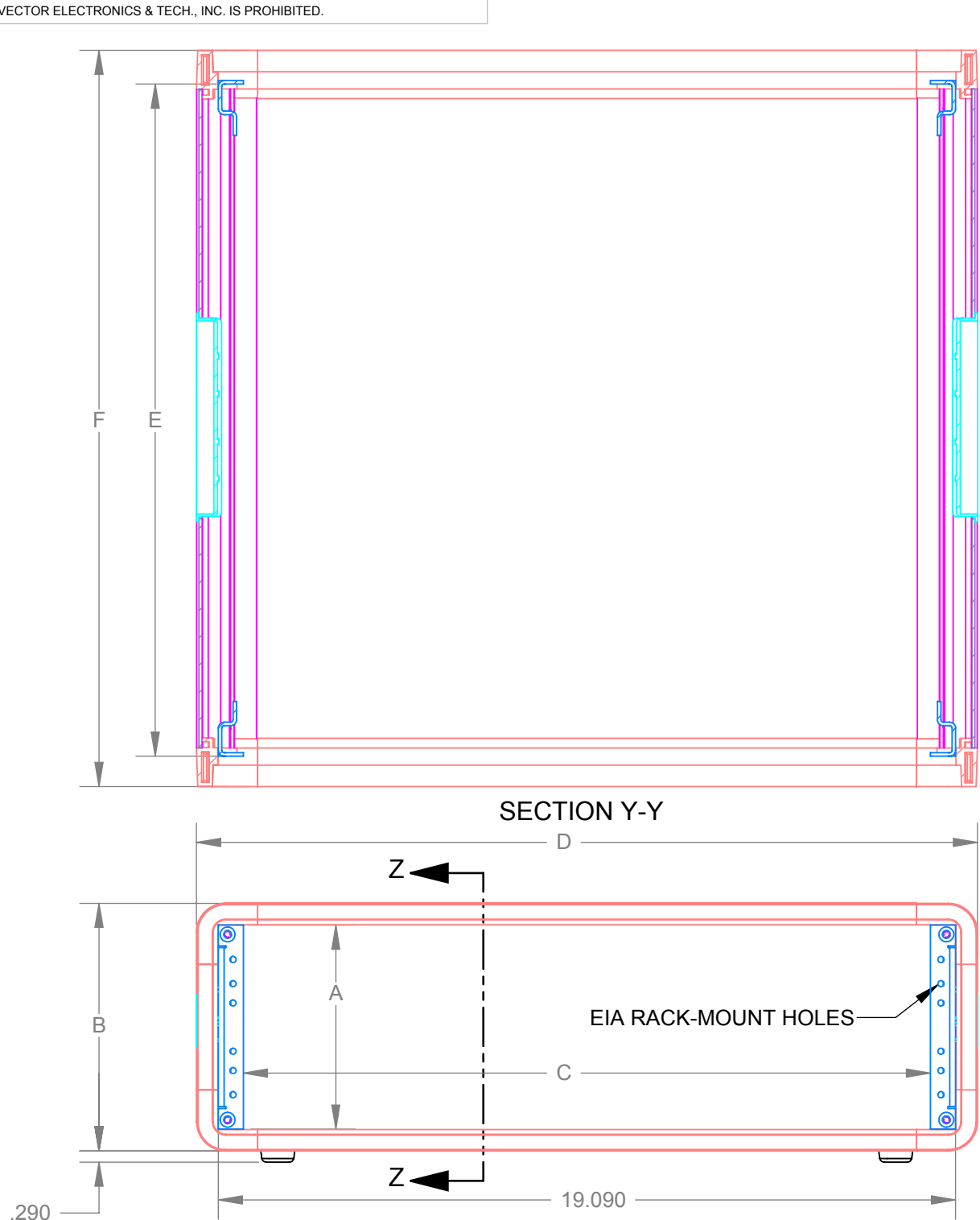
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
ALL	A	INITIAL RELEASE	01/21/87	

D

C

B

A

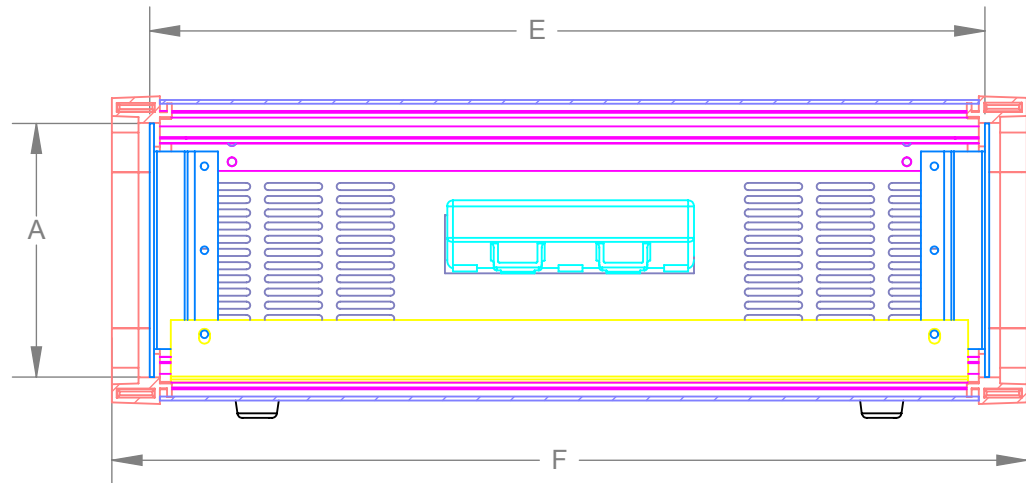


D

C

B

A



SECTION Z-Z

PART #	HEIGHT		WIDTH		DEPTH		INTERNAL SIZE
	INSIDE DIM.	OUTSIDE DIM.	INSIDE DIM.	OUTSIDE DIM.	INSIDE DIM.	OUTSIDE DIM.	
	A	B	C	D	E	F	
SE132216	5.280	6.410	17.790	20.220	14.400	16.060	3U x 19" W x 14.4" D
SE1322	5.280	6.410	17.790	20.220	17.400	19.060	3U x 19" W x 17.4" D
SE1422	5.280	6.410	17.790	20.220	12.400	14.060	3U x 19" W x 12.4" D
SE1522	7.030	8.160	17.790	20.220	21.890	23.550	4U x 19" W x 21.9" D
SE162216	10.530	11.660	17.790	20.220	14.400	16.060	6U x 19" W x 14.4" D
SE1722	12.280	13.410	17.790	20.220	21.940	23.600	7U x 19" W x 21.9" D

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div>VECTOR</div> ELECTRONICS & TECHNOLOGY, INC		11115 VANOWEN ST., NORTH HOLLYWOOD, CA 91605	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: ±.5° TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.XXX INTERPRET GEOMETRIC TOLERANCING PER:	DRAWN	TRUSHAR	12/01/2009	<div>DESKTOP ENCLOSURE</div> <div>SIZE DWG. NO.<div>BSE SERIES</div></div> <div>REV<div>A</div></div> <div>SCALE: 1:5WEIGHT:</div> <div>SHEET 1 OF 1</div>			
	CHECKED						
	ENG APPR.						
	MFG APPR.						
	Q.A.						
MATERIAL <div></div>		THIRD ANGLE PROJECTION <div></div>					
FINISH <div></div>							
DO NOT SCALE DRAWING							

VectorPak™ Chassis / System Enclosures

VME / cPCI

VECTOR
ELECTRONICS & TECHNOLOGY, INC.



732 - 2U chassis shown front and back



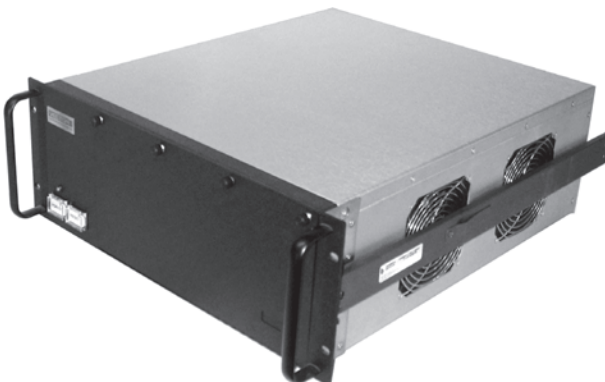
732 - 3U chassis shown front and back



733 - 3U chassis with front removable door panel



733 - 3U chassis with clear Lexan hinged removable door panel



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

www.vectorelect.com

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.

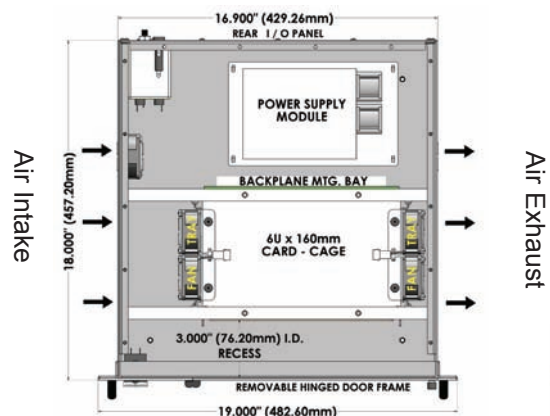
Features:

- Low profile enclosures for horizontal mounted cards
- 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

Top View



Chassis

800-423-5659

VectorPak™ Chassis / System Enclosures

VME / cPCI



Series 730

6U Horizontal Cards

Chassis



**733 - 3U Chassis with Clear Lexan
hinged removable door panel**





VectorPak™ Chassis / System Enclosures

VME / VXI

Series 761

6U Horizontal Cards

Chassis



Model 761: 7 Slot VME64x-Hinged Smoked Glass Door (open)



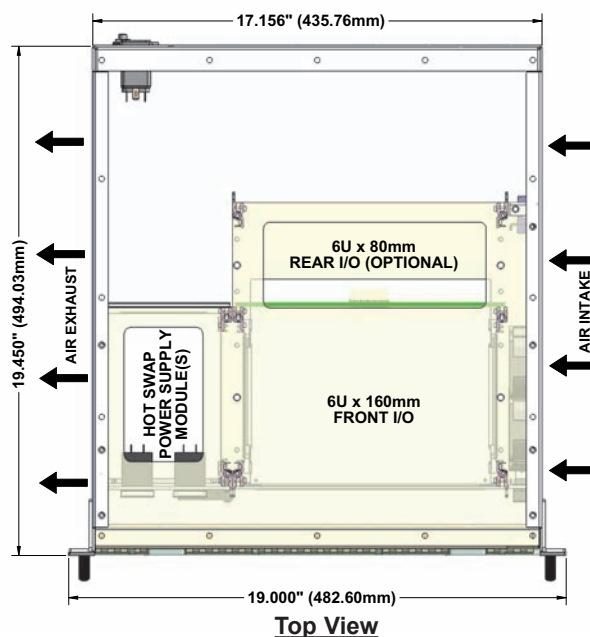
Model 761: 7 slot VME64x Hinged Lexan door, closed

Additional Features:

- 6U cards, up to 280mm card depth
- High reliability-Low MTTR with plug-in fan tray, and power supply modules
- 300W, hot-swap, n+1 dual redundant, plug-in power supplies
- 4U chassis with up to 7 slots of VMEJ1/J2, VME64x or cPCI
- Front power and reset switches, chassis front panels painted black
- Internal 6Ux80mm rear I/O and rack mount slides available
- EMI/RFI suppression techniques employed throughout
- Rear panel I/O custom configuration available
- Front to rear cableway

Environmental Specifications

Cooling Model 761	3 ea., 60mm, 23CFM fans for cards 1 80mm, 46CFM fan for power supplies
Operating Temp	0° - 50°C (32° - 110°F)
Storage Temp	-20° - 85°C (-4° to 185°F)
Humidity:	<95% Non-condensing



Top View

Specification subject to change without notice

www.vectorelect.com

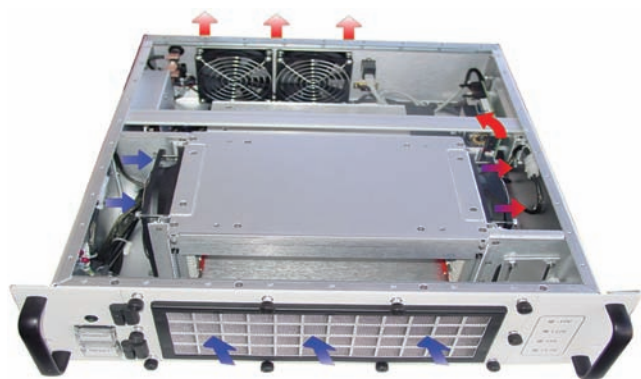
800-423-5659

VectorPak™ Chassis / System Enclosures Ruggedized VME/cPCI

VECTOR
ELECTRONICS & TECHNOLOGY, INC.



Ruggedized Series 795 Front view with door



Ruggedized Series 795 Top view showing air flow



Ruggedized Series 792 with EMI/RFI shielded removable panel

Chassis Environmental Specifications

Cooling	4 ea. 89 cfm DC axial fans side wall mounted, push/pull
Operating Temp	0° - 50°C
Storage Temp	-28.8°C - 85°C
Humidity - Storage or Transport	>95%, condensing, specially conditioned
Humidity - operating	30% to 70%
Shock & Vibration	MIL STD 810E
EMI/RFI	Per MIL STD 461

Environmental Test Specification - MIL STD 461D Standard

Testing Frequency Range	30 Hz 18 GHz
Conducted Susceptibility (MIL STD 462, CS101)	30 to 15 kHz
Radiated Emissions test (RS103)	30 mHz to 2 GHz; 1 GHz to 18 GHz
Altitude Test to MIL STD 810E, Proc. 1&2	To 15,000 ft.
High Temperature testing (MIL STD 501.3, Proc 2)	
Low Temperature to MIL STD 501.3, Proc. 1&2	-28.8°C
Humidity testing to MIL STD 810E 507.3, Proc. 3	
Vibration & Shock	MIL STD 810E Method 514.4, Category I

Series 790 & 795

6U Horizontal Cards

Chassis

This is a ruggedized version of the Series 730. It has been designed and tested to MIL-STD 461D for harsh environmental conditions. RFI/EMI frequency protection at high and very low bandwidth interference, condensing humidity and rigorous shake and drop tests are the strong points of this design. A removable rear panel section allows custom I/O connector panelization at minimum cost. This series is also available at a much lower cost than competitive units with the same features.

- MIL STD 461D compliant & certified
- Low Cost
- Withstands high humidity, shock & vibration in storage or transport
- EMI/RFI Gasketed removable front door
- 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
- Series 795, front to rear air flow, Push/Pull fans
- Series 790, side to side air flow, Push/Pull fans
- Rear Panel removable for custom I/O connector punching
- Light weight
- Field tested

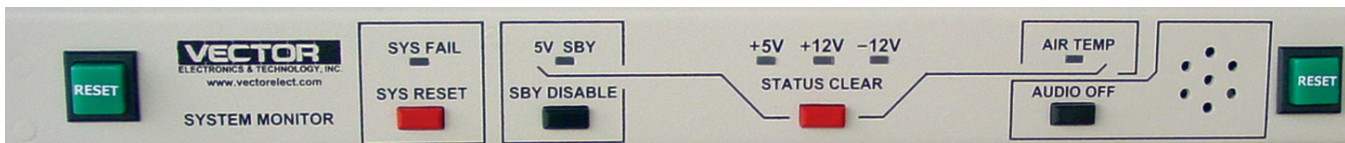


Ruggedized Series 790 Front view with door removed



Ruggedized Series 790 Front view with door

VME or VXI System Monitor Specifications Power Supply Specifications



Chassis

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



760 Monitor Panel

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.

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.

Total Power Maximum

DC outputs

Minimum Load

1000W [5V@70A](#); [3.3V@35A](#); [+12V@16.6A](#); [-12V@16.6A](#)

None

800W [5V@70A](#); [3.3V@35A](#); [+12V@16.6A](#); [-12V@16.6A](#)

None

600W [5V@70A](#); [3.3V@40A](#); [+12V@16.6A](#) [-12V@16.6A](#)

None

400W [5V@20A](#) [3.3V@20A](#); [+12V@8.3A](#) [-12V@8.3A](#)

None

250W [5V@40A](#); [3.3V@20A](#) [+12V@4A](#) [-12V@1.0A](#)

10% on +5V



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](#).





VectorPak™ Chassis / System Enclosures

SERIES 700- 795 ORDERING INFORMATION

Chassis

7XX	616	02	25	00	H	00
Model Number 710= 19" removable subrack with desktop outer enclosure - 720= 19" removable subrack only 732= REAR card entry, 3.5 or 7 slot 733= FRONT card entry, 3.5 or 7 slot 761= Removable fan & power supply modules 790= Ruggedized, 3U - 5U (5-7 slots) 795= Ruggedized 3U - 5U (5-9 slots)	Plug-in Card Size 616 = 6U x 160mm 622 = 6U x 220mm 628 = 6U X 280mm	Backplane type C = cPCI backplane, PICMG 2.0, Rev 3 H = cPCI backplane, H110 backplane A = Auto Bus Grant (ABG), standard 96-pin VME E = Electronic Bus Grant (EBG) VME64x, 160-pin J1, J2 with P0	Power Supply 25 = 1 250W embedded industrial-type 30 = 1 300W ATX embedded industrial-type 40 = 1 400W embedded industrial-type 60 = 1 600W embedded industrial-type 75 = 1 800W embedded industrial-type	Packaging Options 00 = Rackmount brackets only 01 = Rackmount slides (3U & above) 02 = Hinged removable front door panel 03 = Rackmount brackets & slides 04 = Clear Lexan hinge removable door panel - = AC D = DC X = ATX	Peripheral Drives (Series 710/720 only) - = No drives H = 1 Half height 5.25" J = 2 Half height 5.25" M = 2 3.5" 01 = 2-slot horizontal rear I/O, 6U X 80mm	Rear I/O Options 00 = No Front System Reset 02 = System Reset
Color - = Santex White, std			Backplane No. of Slots 02 = 2 slots 03 = 3 slots thru 12			



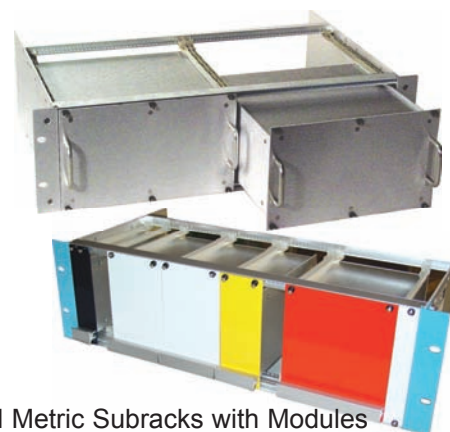
Contact Vector For Your Custom Chassis Requirements



Series 445 VME64x & Dual Hot-Swap



Series 2344



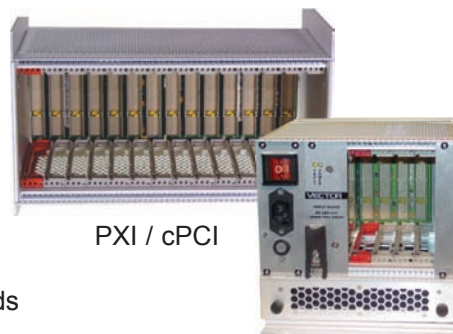
DIN Metric Subracks with Modules



Modified series 445, full EMI/RFI



Custom series 600 for "C" size cards



PXI / cPCI