

VectorPak™ Chassis / System Enclosures



Series 400

6U Vertical Cards

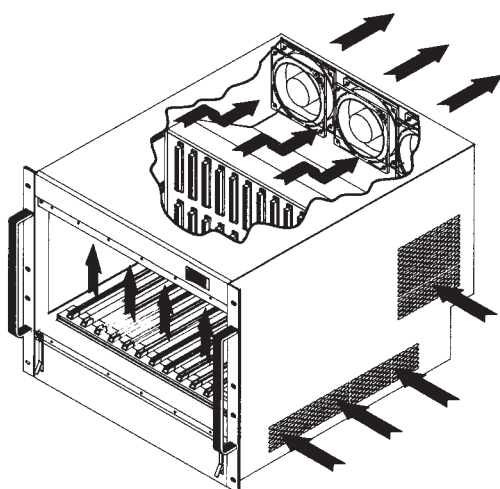
Chassis



Series 410 Chassis shown with VME backplane, optional monitor panel and removable Lexan door.

Series 400 features front or side air intake and rear exhaust, suitable for rackmount use. Several heights from 7U to 10U may be selected with several standard depth dimensions. Its versatile design, including recessed subrack, cableway, plenum directed air, removable air filters and easy configurable back panels make it the designer's choice for VME applications. power sup-

plies are available up to 1000 watts with quick disconnect cabling. System Monitoring available when VME J1/J2 or VXI backplanes used (See page 9).



Features:

- Versatile Aluminum Chassis allows user choices in card size and mix, power options, front cover & rear panel customizing
- Accepts up to a 21 slot backplane (Pages 16, 20 21-23)
- Removable/washable air filters
- Many power options (Page 9)
- 3 ea. 106 CFM 12 VDC axial fans
- Optional front voltage monitor panel monitors voltage ranges and chassis temperature (VME & VXI)

Ordering Information:

410		616		00		00		00	
Part Number						- = AC D = DC X = ATX		Rear I/O Options 01 = System Monitor w/reset 02 = System Reset 03 = 80mm Rear I/O	
410 - 9U H (15.72") X 21.5"D Side air intake, rear exhaust						Power Supply 21 = 1 200W plug-in 22 = 2 200W plug-in 25 = 1 250W embedded industrial-type			
439 - 10U H (17.47") X 23.00"D Side air intake, rear exhaust, extra internal/external drive space				Backplane No. of Slots 02 = 2 Slot 03 = 3 Slot ▼ 21 = 21 Slot		30 = 1 300W ATX embedded 40 = 1 400W embedded industrial-type		Peripheral Drives (Series 439 only) - = No drive mounting H = One half-height 5.25" drive J = Two half-height 5.25" drives M = Two 3.5" drives	
440 - 7U H (12.22") X 15.07"D Low profile, front air intake, rear exhaust						60 = 1 600W embedded industrial-type			
445 - 8U H(13.97") X 21.5"D Front air intake, rear exhaust						75 = 1 800W embedded industrial-type			
- = Sandtex White (Standard color)						10 = 1 1,000W embedded industrial type		Packaging Options 00 = Rackmount brackets only 01 = Rackmount slides 02 = Hinged removable front door panel 03 = Rackmount brackets and slides	
Plug-In Card Size 616 = 6U x 160mm 622 = 6U X 220mm 628 = 6U X 280mm		Backplane Type A = Auto Bus-Grant (ABG), standard 96-pin J1/J2 VME E = Electronic Bus-Grant (EBG) VME64x, 160- pin J1, J2 with P0							



VectorPak™ Chassis / System Enclosures VME / cPCI

Chassis

Series 400 6U Vertical Cards

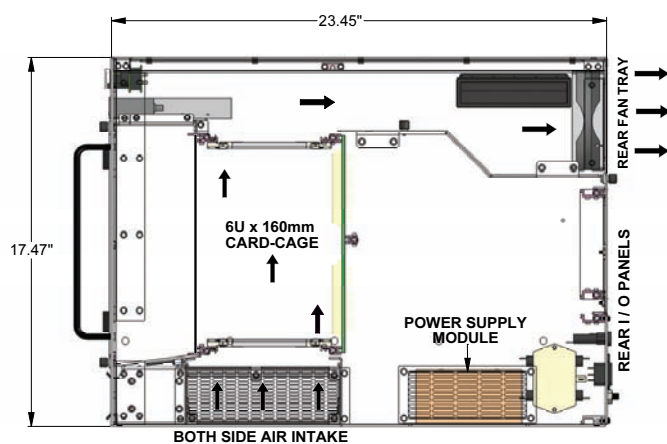
VectorPak™ Series 439 Rackmount VME System Enclosure



Series 439 with 21 slot VME backplane, system monitor, with 800 Watt power supply, with CDD mounting space.

Series 439 -

- 10U high chassis with front mounted drive
- Additional peripheral storage behind front panel: up to 2 ea. 5.25" drive and 1 ea. 3.5" drive
- Internal shelf for additional disk drive storage
- Fully assembled and wired



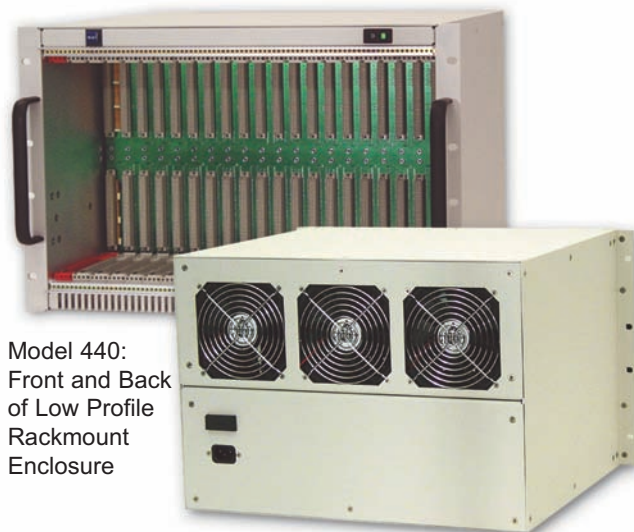
Series 439

VectorPak™ Series 440 Benchtop / Rackmount VME System Enclosure

Low Profile (7U) Height Saves Rack Space

440 Features:

- Front air intake
- Convertible from Rackmount to Desktop with removable rack brackets
- Quick access to Backplane via hinged rear panel
- Cooling via 3 @ 89 CFM D.C. fans provided
- IEEE 1101.10 compliant



Model 440:
Front and Back
of Low Profile
Rackmount
Enclosure

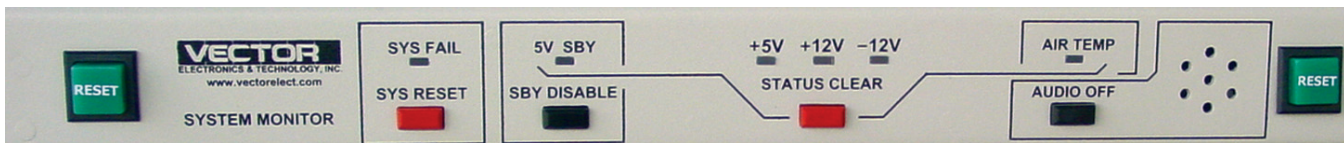


Model 445: (shown above)

- Rugged chassis construction
- 8U 19" system enclosure features vertical card insertion for VME, VME64x and cPCI; all standard slot configurations
- Uncommitted rear panel for specific rear connector I/O
- Side recessed handles, lower rear access side panels
- Many power options (Page 9)
- Optional auxiliary rear exhaust
- IEEE 1101.10 Compliant



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](#).

