



TRI-MAG, Inc.
INTEGRAND DIVISION
 ® *your* POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
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590ATX

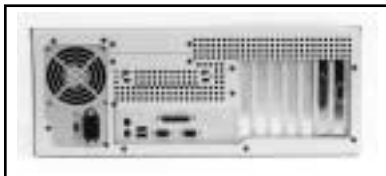
Industrial Computer Chassis for ATX Motherboards

FEATURES

- Made in USA
- Modular Design
- Rack & Desk Models
- Less Than 17.5" Deep
- Rack Version Meets EIA RS-310C
- RUGGED, Heavy Gage, Aluminum Construction
- Excellent Cooling
- TWO Fans Standard
- Intake Air Filter
- Positive Air Pressure Inside Chassis
- Accepts ATX, MiniATX & MicroATX Motherboards
- Fits Standard ATX I/O Shields
- Accepts Tall (AT High) Boards
- ISA/PCI Card Hold Down Bar
- Removable Front Drive Bracket Accepts 2 Half Hi 5¼ & One 3½
- Removable Buried Shockmount Bracket Holds One 3½ HD
- 250W Switching Supply, UL, TUV, CE, Field Replaceable
- 115/230 Operation
- Reasonably Priced

OPTIONS / ACCESSORIES

- 300W Switching Supply
- Black or Off White Paint
- Locking Drive Door and 2 Stage Air Filter
- Slides for Rackmount
- Drive Bay Cover Plates
- 3½ to 5¼ Drive Adapters
- Semi Custom Modification By Using Wide Range of Stock Modular Panels
- Custom Modifications
- Hot Swap ATX Supply 250W (400W)



DESCRIPTION

590ATX is a high quality, modular PC chassis for ATX form factor motherboards. It provides a rugged, well-cooled enclosure for server, telecom, factory automation and other industrial applications. Both desktop and EIA RS-310 compatible rackmount versions are available.

590ATX features simple, sturdy mounting for drives and motherboard. Both drive and board mounting brackets are removable from the chassis for easy system assembly. The front drive bracket accepts one 3½ and up to 2 half hi 5¼ accessible devices. An internal bracket holds one 3½ device.

An adjustable card hold down clamp keeps ISA/PCI daughter boards firmly in position.

Two fans, working in push-pull, move large quantities of air through the chassis to provide cooling. Incoming air is filtered by a large, accessible, washable filter element. Positive pressure is maintained in the chassis to reduce dust incursion.

Three high quality, agency recognized, field replaceable power supplies are available. The standard supply is rated 250W. A 300W or Hot Swap is optional.

CUSTOMIZING

See Inside Back Cover for a Customizing Guide.

The standard chassis shown in the accompanying photos and drawings will fill a large number of applications. However, the modular 590ATX design allows fast, easy, low cost modification to customer requirements by using our library of Modular Panels.

Stock Modular Panels are shown on pages 5 through 6. Accessories are shown on Page 7.

Panels may also be changed on older 590ATX's to install some new feature.

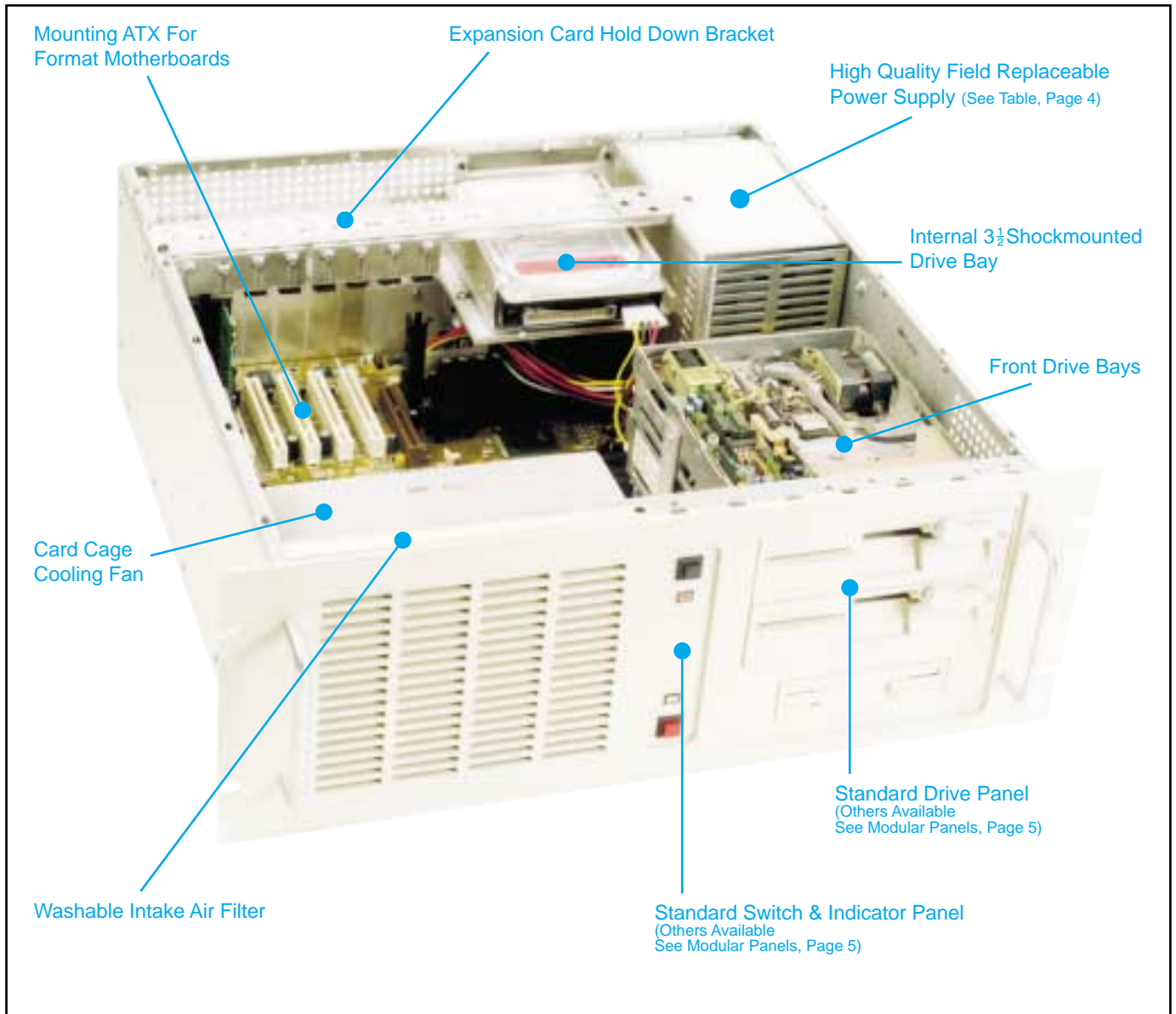
If requirements dictate modifications other than those available as library items, we can usually provide low cost solutions. We invite you to contact us.



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Accessories
See Page 7



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POWER SUPPLY TABLE

PS Model	Input Voltage	DC OUTPUT RATINGS							PS Safety Approvals
		Watts	+5V	+3.3V	+12V	-5V	-12V	+5Stdby	
-2A	117/230	250	25A	14A	10A	0.5A	0.5A	0.75A	UL, TUV, CSA, CE
-3A	VAC	300	30A		12A		1A		
-8A	-48VDC	250	25A		14A		0.5A		
-5AR Hot Swap	117/230 VAC	250 (400)	30A	20A	14A				

SPECIFICATIONS

Input Voltage

95-132 or 190-264VAC,
 47-63Hz, 1Φ, Switch Selected

DC Outputs

See Power Supply Table

Temperature

10 to 40C Internal Operating,
 -20 to 70C Storage

Humidity

20 to 85% Operating,
 Non Condensing

PS MTBF

100,000 hrs @ 25C, Demonstrated

Size

Rackmount:

4U (7") x 19" Panel x 17.5D

Desktop:

7.4H x 17W x 17.8D

Weight

20 Pounds, 30 UPS Shipping

Finish

External Surfaces Painted

Rackmount:

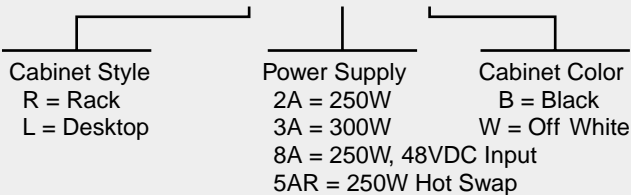
Rack panel textured, other surfaces smooth

Desktop:

All surfaces textured except back & bottom

ORDERING GUIDE & PRICES

M590ATX [] - [] - []



(Standard I/O Shield is 590-524, see Page 6)

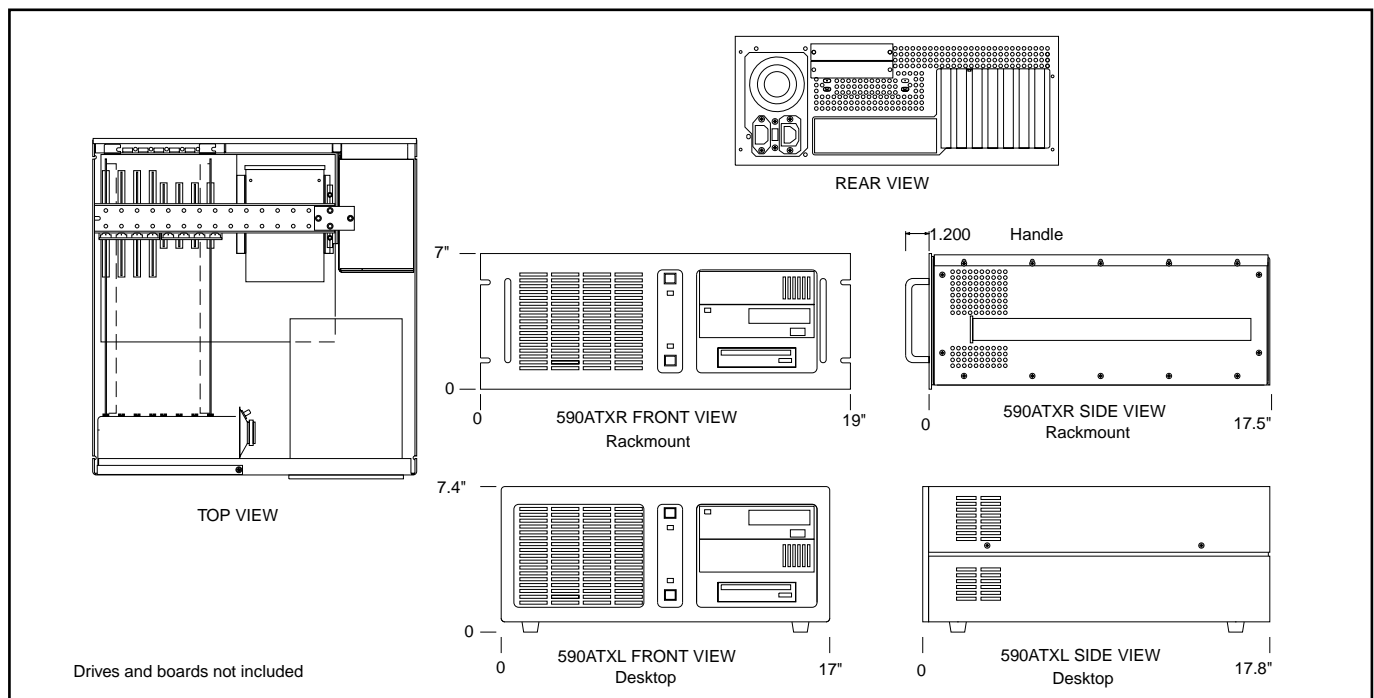
MODEL

M590ATXR-2A-B
 M590ATXR-3A-B
 M590ATXR-8A-B
 M590ATXR-5AR-B
 M590ATXL-2A-B
 M590ATXL-3A-B
 M590ATXL-8A-B
 M590ATXL-5AR-B

PRICE

\$325
 \$350
 Contact Factory
 \$500
 \$355
 \$380
 Contact Factory
 \$530

(Black or Off White Color same price)





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590ATX – Modular Panels

Rack Panels

- 590-213 Standard \$20
- 590-216 Blank \$20
- 590-223 Dual Air Filter Assembly \$55
- 590-467 Lockable Drive & Switch Door & Dual Air Filter Assembly \$45

Switch

- 505-203 Standard \$20: Reset, Disk LED, Pwr LED, Pwr Switch
- 505-204 \$20: Disk LED, Pwr LED, Pwr Switch
- 505-205 \$23: Reset, Disk LED, Pwr Switch, Pwr LED, Sleep Switch

Drive Subpanels

- 590-521 Standard \$20: 2 Horiz 5 1/4 Half, 1 Horiz 3 1/2 x 1 Thk
- 590-132 \$14: 2 Vert 5 1/4 Half
- 590-133 \$14: 1 Vert 5 1/4 Half Right Hand
- 590-134 \$14: Blank
- 590-431 \$20: 1 Vert 3 1/2 x 1 Thk, 2 Shockmount 3 1/2 Hard Disks
- 590-433 \$14: 1 Vert 3 1/2 x 1 Thk
- 590-434 \$14: 2 Vert 3 1/2 x 1 Thk
- 590-435 \$20: 1 Vert 3 1/2 x 1 Thk, 2 Shockmount 3 1/2 Hard Disks
- 590-437 \$20: 1 Horiz 5 1/4 Half, 1 Horiz 3 1/2 x 1 Thk
- 590-441 \$14: 1 Vert 3 1/2 x 1 Thk
- 590-442 \$14: 2 Vert 5 1/4 Half, 1 Vert 3 1/2 x 1 Thk
- 590-443 \$20: 1 Vert 5 1/4 Half, 1 Vert 3 1/2 x 1 Thk, 1 Shockmount 3 1/2 Hard Disk
- 590-449 \$20: 1 Vert 3 1/2 x 1 Thk, 1 Shockmount 3 1/2 Hard Disk

FRONT VIEW
 Door opens to right, Window

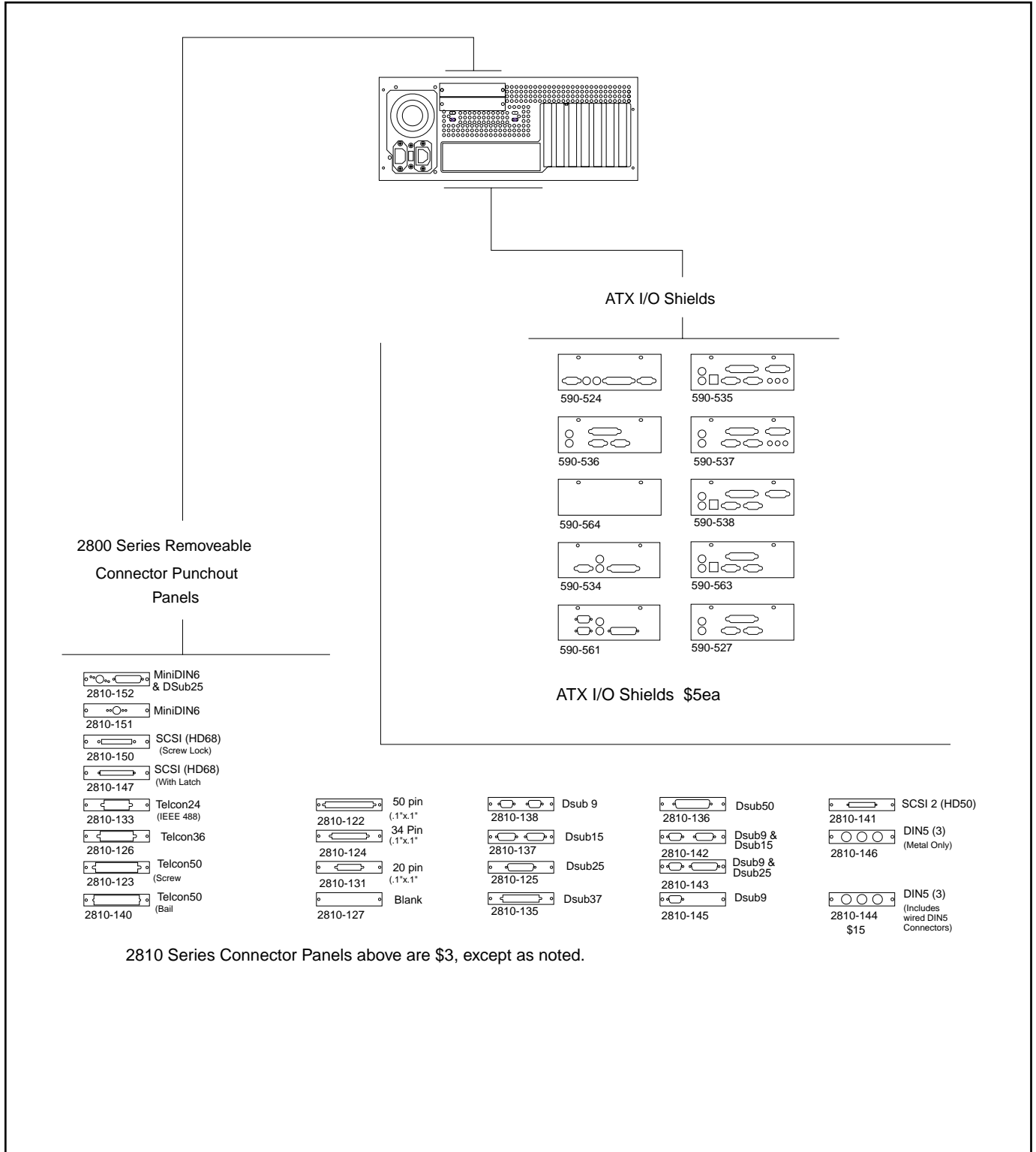
SIDE
 Drives not included



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590ATX – Modular Panels





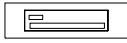
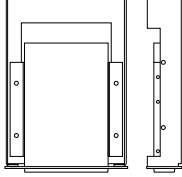
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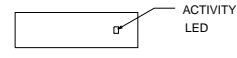
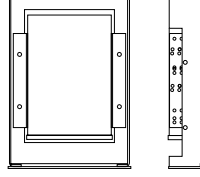
590 Series - Accessories

DRIVE ADAPTERS

ADAPTS 3 1/2 DRIVES TO 5 1/4 FOOTPRINT



505-335 \$11
 3 1/2 FLOPPY DRIVE ADAPTER
 FITS 25MM (1") HIGH DRIVES



SEE TABLE FOR P/N & PRICE
 3 1/2 HARD DRIVE ADAPTER

PART NUMBER	ADAPTER TYPE	DRIVE ACTIVITY DRIVE CONNECTOR	PRICE
505-340-1	NON-SHOCK MOUNT	0.1" GRID	\$13
505-340-2	MOUNT	2MM GRID	
505-345-1	SHOCK MOUNT	0.1" GRID	\$19
505-345-1	MOUNT	2MM GRID	

DRIVE COVER PLATES



FRONT VIEW - Half



FRONT VIEW - Full Hi

5 1/4 HORIZ Mount		
PART #	SIZE	PRICE
590-450	HALF HI	\$8
590-455	FULL HI	

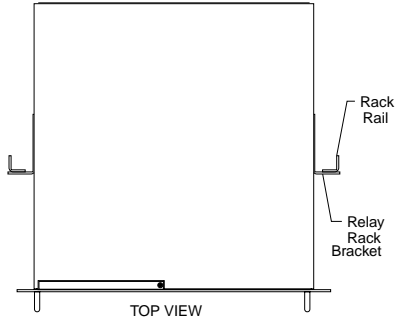
5 1/4 VERT Mount		
PART #	SIZE	PRICE
590-345	HALF HI	\$8
590-340	FULL HI	

3 1/2 VERT or HORIZ		
PART #	SIZE	PRICE
520-230	1ea 25mm	\$8
520-235	2ea 25mm	

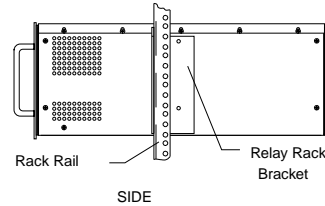
RELAY RACK BRACKETS

Mount rack chassis to "relay rack"
 (Single set of 19" vertical)

590-325 \$10/PR



TOP VIEW

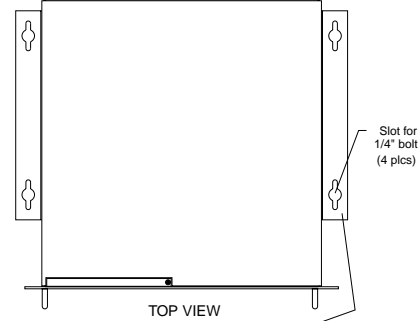


SIDE

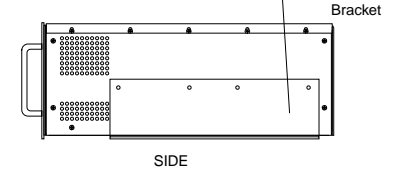
WALL MOUNT BRACKETS

Attach rackmount chassis to
 wall or other flat surface

590-320 \$20/PR



TOP VIEW



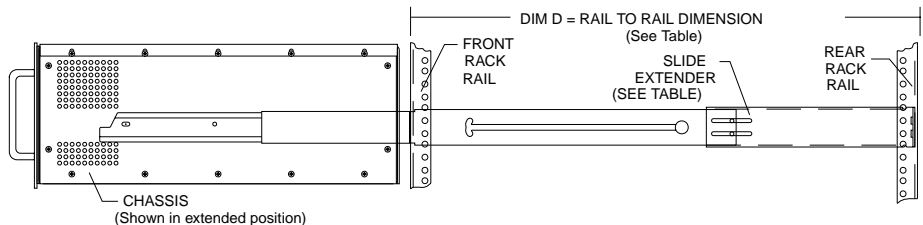
SIDE

SLIDES & EXTENDERS

EXTENDER TABLE

DIM D	EXT P/N	PRICE
17.2 TO 24.3	590-380	\$8/PR
24.3 TO 32.3	590-382	\$11/PR

SLIDE160 \$45/PR
 Slide for 590 Series



CHASSIS
 (Shown in extended position)

Drives not included