



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

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590RX

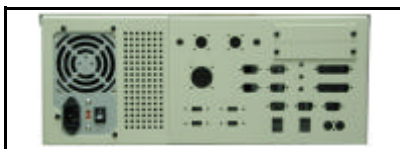
Rackmount Industrial computer Chassis, Extended Depth for Cable breakout

FEATURES

- Made in the USA
- Modular Design
- Meets EIA RS-310C
- RUGGED, Heavy gage, Aluminum Construction
- Excellent Cooling
- TWO Fans Standard
- Intake Air Filter
- Positive Air Pressure
- "Back Porch" Behind I/O Cards for Cable Breakout to Rear Panel Connectors
- Accepts ATX, ATX MINI And ATX MICRO MotherBoards
- Accepts ISA or PCI Passive Backplanes
- Standard, Removable Front Drive Bracket Accepts up to 2 5¼ Drives and 1 3-1/2 floppy
- Removable Buried Shockmount Bracket Holds up to Two 3½ Hard Drives
- 250W~450W Switching Supply, UL, TUV, CE, Field Replaceable
- 115/230 Operation
- Reasonably Priced

OPTIONS/ACCESSORIES

- 115/230VAC Input 300W, 400W, ATX or Hot Swap Power Supply
- +12,+24 and -48VDC Input, 250W or 300W Supply
- Black or Off White Paint
- Locking Drive Door and 2 Stage Air Filter
- Rack Slides
- Drive Bay Cover Plates
- Semi Custom Modification Bu Using Wide Range of Stock Modular Panels
- Custom Modifications



DESCRIPTION

590RX is a high quality, rackmount, modular PC chassis for ATX, ATX Mini, ATX MICRO motherboards or Passive Backplanes

Cards often have more functions than can be accommodated on their rear brackets and may have headers that need to be connected to a panel connector. Occasionally, the card-mounted connector may not be the correct type for the application. 590RX fills the chassis requirement for systems with large numbers of cable connections to the outside, more than can be mounted on I/O card brackets.

The 590RX card cage is located in the center of the chassis, leaving a "back porch" between the rear of I/O cards and the chassis rear panel. A large area on the rear is reserved for a custom connector panel, which is designed to mount the desired I/O connectors. Wiring between cards and this custom rear panel allows significant flexibility in system I/O design.

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

590RX incorporates high quality, agency recognized, field replaceable power supplies. The standard supply is rated 200W. 300W, 400W, ATX, Hot Swap AC input supplies or +12,+24 and -48 VDC input supplies are options.

CUSTOMIZING

590RX Rear Connector Panels are usually customized for a particular system. Contact us for more information.

The modular 590RX design allow fast, easy, low cost modification to customer requirements by using our library of Modular Panels. See Inside Back Cover for a Customizing Guide.

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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590RX

PS MODEL	Input voltage	DC OUTPUT RATINGS								PS Safety Approvals
		Watts	+5V	+3.3V	+12V1	+12V2	-5V	-12V	+5Stdby	
-2A	117/230 VAC	250	25A	14A	10A	N/A	0.5A	0.5A	0.75A	UL, TUV, CSA, CE
-3A		300	30A		12A					
-35A		350	30A	28A	15A			3A		
-45A		450	45A	40A	10A				1A	
-8A	-48VDC	250	25A	14A	N/A	0.5A	0.5A	1A		
-9A	+24VDC	250	25A				15A	1.0A	0.75A	
-12A	+12VDC	250	30A	22A			8A	0.5A	0.72A	
-6AR Hot Swap	117/230 VAC	370	40A	20A			25A		1.5A	
-8AR Hot Swap	-48VDC	300	30A	16A	1.0A	1.0A				

SPECIFICATIONS

Input Voltage

- See Table Above

DC Outputs

- See Table Above

Temperature

- 10 to 40°C internal Operating, -20 to 70°C Storage

Humidity

- 20 to 85% Operating, Non Condensing

PS MTBF

- 100,000 hrs @ 25°C, Demonstrated

Size

- Rackmount: 4U (7") x 19" Panel x 17.5D

Weight

- 20 pounds, 30 UPS shipping

Finish (External Surfaces Painted)

- Rackmount: Rack panel textured, other surfaces smooth

ORDERING GUIDE

590RX - [] - [] - [] - [] - []

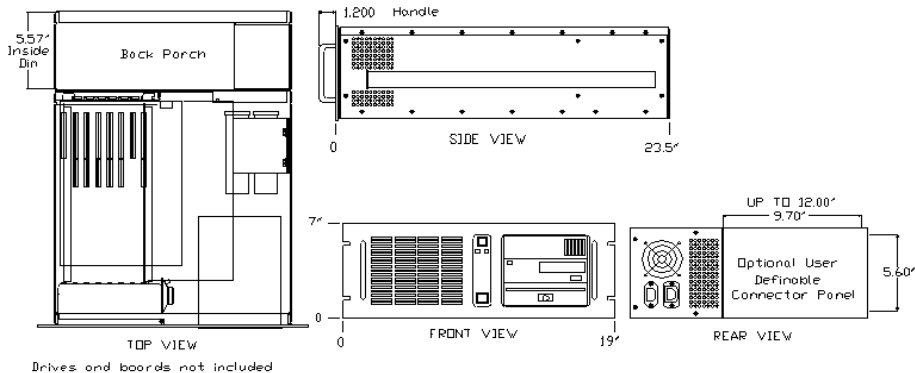
Power Supply
 2A = 250W
 3A = 300W, P4
 35A = 350W, P4
 45A = 450W, P4
 8A = 250W, -48VDC Input
 9A = 250W, +24VDC Input
 12A = 250W, +12VDC Input
 6AR = 370W, Hot Swap, P4
 8AR = 300W, -48VDC Input Hot Swap, P4

Rear Card Cage
 A = 8 Slots
 A14 = 14 Slots
 ATX = ATX

Front Card Cage
 A8 = 8 Slots
 A12 = 12 Slots

Installed Backplane
 0 = None
 8 = 8 Slots
 14 = 14 Slots

Cabinet Color
 B = Black
 W = Off White



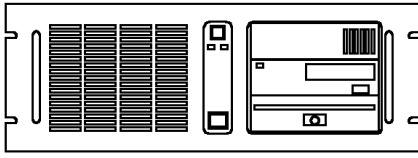


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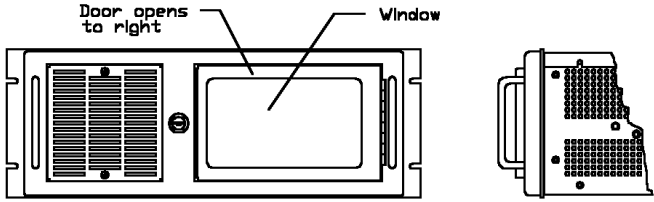
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590RX

- Modular Panels -

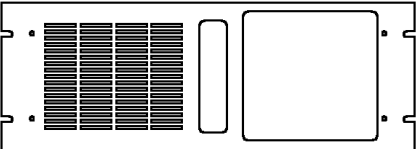


Rack panels




Door opens to right
Window

590-467
Lockable Drive & Switch Door
& Dual Air Filter Assembly

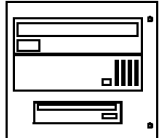
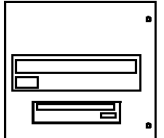
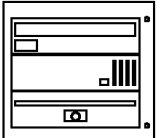
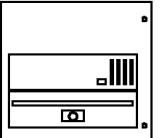
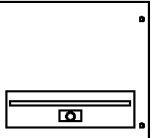
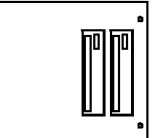
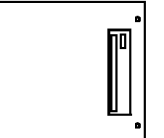
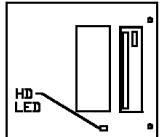
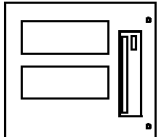
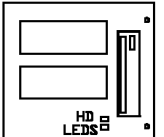
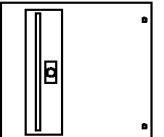
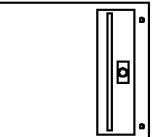
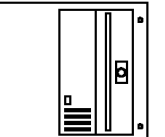
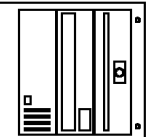
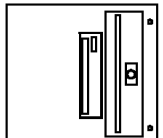
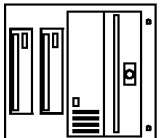
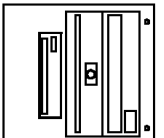
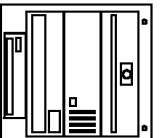
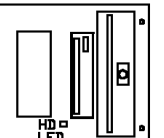
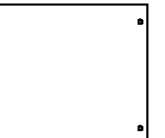


590-213 Standard

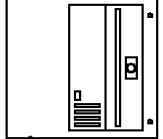
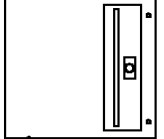

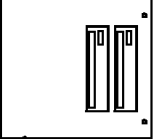
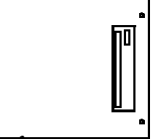
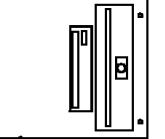
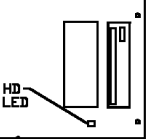


590-216 Blank

Drive Subpanels Use With 8 Slot Front Card Cage

 590-521 (STD) 2 Horiz 5 1/4 1 Horiz 3 1/2 Floppy	 590-437 1 Horiz 5 1/4 1 Horiz 3 1/2 floppy	 590-135 3 Horiz 5 1/4 #NOT FOR ATX#	 590-136 3 Horiz 5 1/4 #NOT FOR ATX#	 590-137 1 Horiz 5 1/4 #NOT FOR ATX#	 590-434 2 Vert 3 1/2 floppy	 590-433 1 Vert 3 1/2 floppy
 590-449 1 Vert 3 1/2 Floppy 1 Shockmount 3 1/2 Hd	 590-435 1 Vert 3 1/2 2 Shockmount 3 1/2 Hd	 590-431 1 Vert 3 1/2 2 Shockmount 3 1/2 Hd	 590-130 1 Vert 5 1/4 #NOT FOR ATX#	 590-133 1 Vert 5 1/4	 590-132 2 Vert 5 1/4	 590-131 3 Vert 5 1/4 #NOT FOR ATX#
 590-441 1 Vert 5 1/4 1 Vert 3 1/2 floppy	 590-436 2 Vert 5 1/4 2 Vert 3 1/2 floppy	 590-442 2 Vert 5 1/4 1 Vert 3 1/2 Floppy	 590-144 3 Vert 5 1/4 1 Vert 3 1/2 floppy #NOT FOR ATX#	 590-443 1 Vert 5 1/4 1 Vert 3 1/2 1 Shockmount 3 1/2 Hd	 590-134 Blank	

Drive Subpanels Use With 12 Slot Front Card Cage

 590-132 2 Vert 5 1/4	 590-133 1 Vert 5 1/4	 590-134 Blank	 590-434 2 Vert 3 1/2 floppy	 590-433 1 Vert 3 1/2 floppy	 590-441 1 Vert 5 1/4 1 Vert 3 1/2 floppy	 590-449 1 Vert 3 1/2 Floppy 1 Shockmount 3 1/2 Hd
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Drives not included

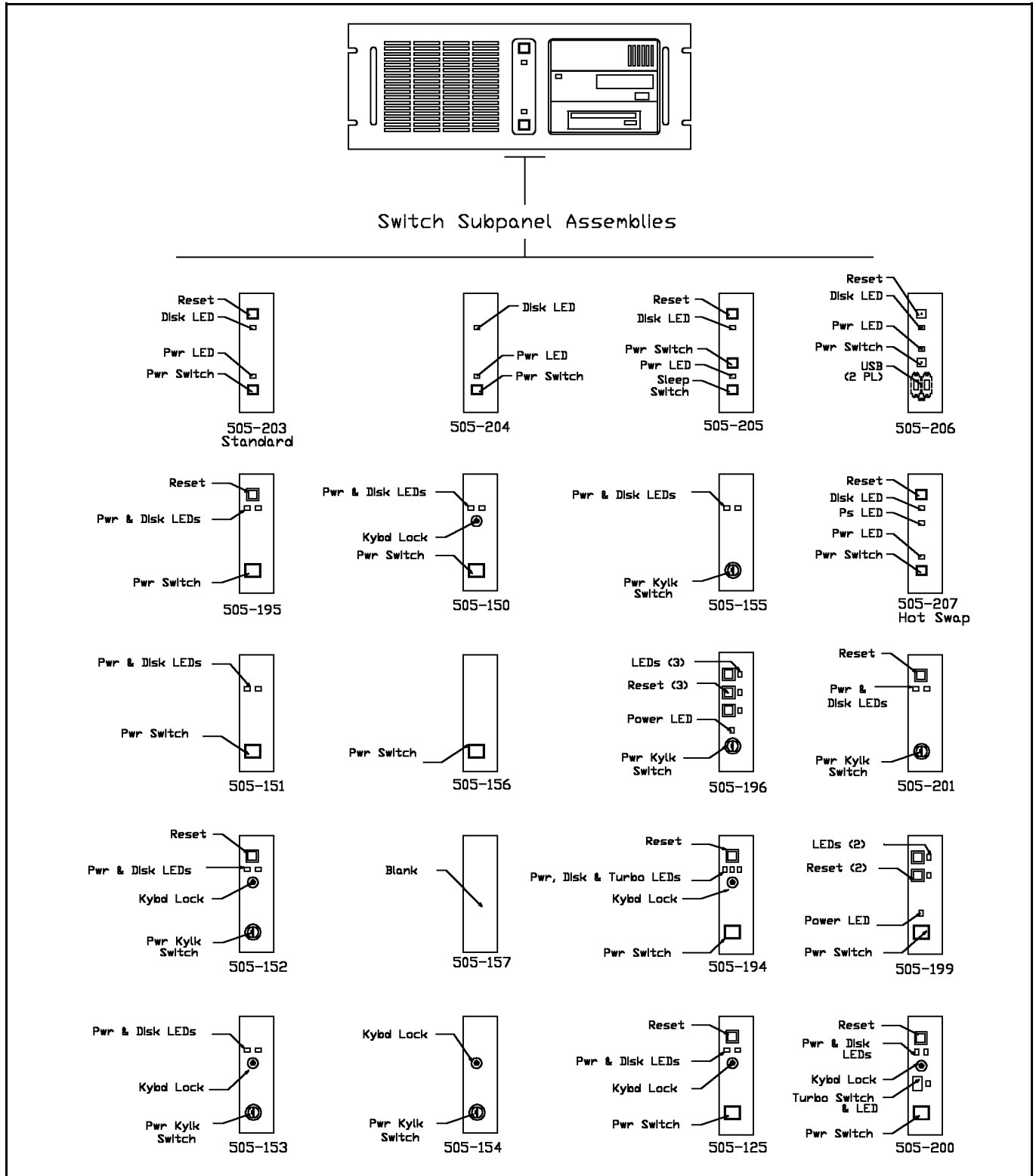
All specifications and prices subject to change without notice

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590RX

– Modular Panels –



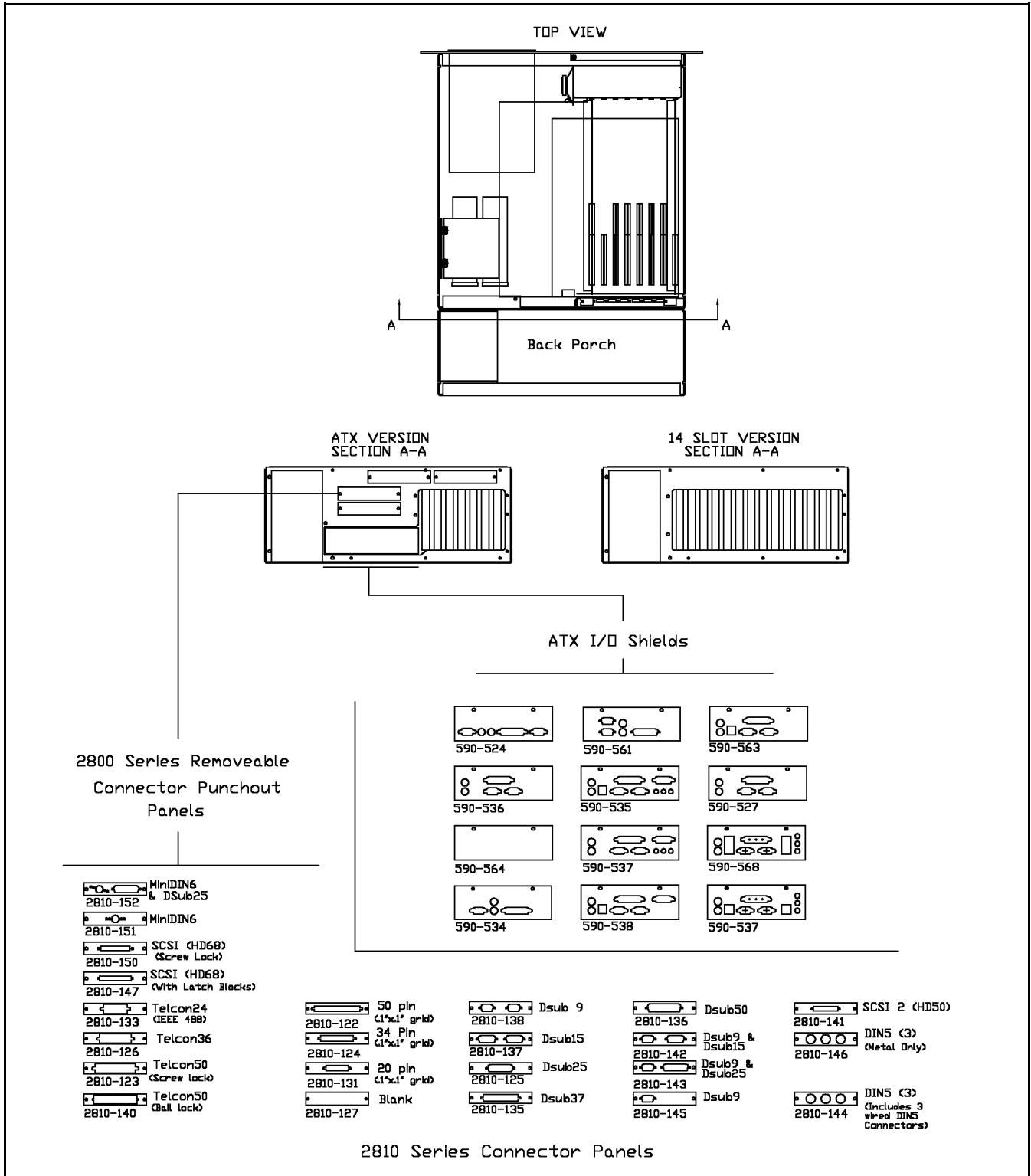


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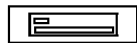
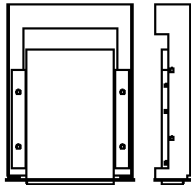
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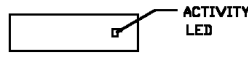
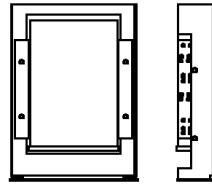
590RX – Accessories

DRIVE ADAPTERS

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



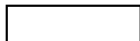
505-335
 3 1/2 FLOPPY DRIVE ADAPTER
 FITS 25MM (1") HIGH DRIVES



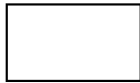
SEE TABLE FOR P/N
 3 1/2 HARD DRIVE ADAPTER

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

DRIVE COVER PLATES



FRONT VIEW - Half HI



FRONT VIEW - Full HI

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

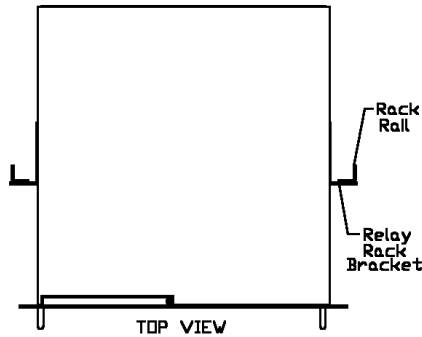
5 1/4 VERT Mount	
PART #	SIZE
590-345	HALF HI
590-340	FULL HI

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

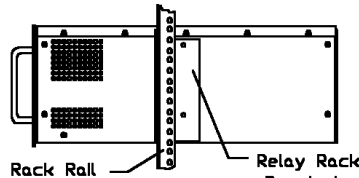
RELAY RACK BRACKETS

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

590-325/Pr.



TOP VIEW

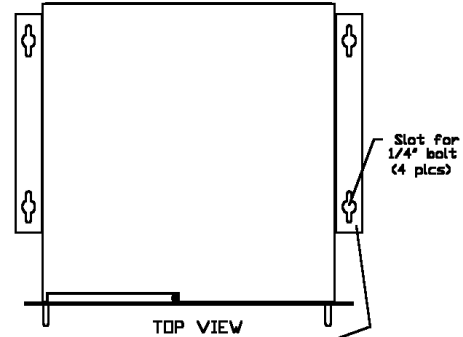


SIDE VIEW

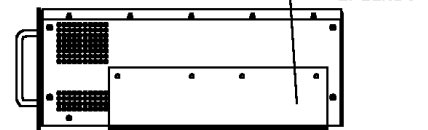
WALL MOUNT BRACKETS

Attach rackmount chassis to
 wall or other flat surface

590-320/Pr.



TOP VIEW

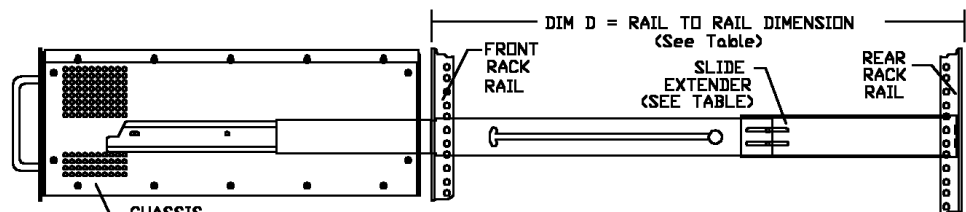


SIDE VIEW

SLIDES & EXTENDERS

EXTENDER TABLE	
DIM D	EXT P/N
17.2 TO 24.3	590-380
24.3 TO 32.3	590-382

Slide for 590RX Series	
SLIDE160	1 PAIR



CHASSIS
 (Shown in extended position)

Drives not included