



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

1601 N. CLANCY CT. • VISALIA, CA 93291  
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## 505 – Motherboard Version

### Industrial Computer Chassis for AT/ Baby AT Motherboards, LINEAR Power Supply

#### FEATURES

- Made in USA
- Modular Design
- Rack & Desk Models
- Rack Version Meets EIA RS-310C
- RUGGED, Heavy Gage, Aluminum Construction
- TWO Fans Standard
- Excellent Air Flow & Cooling
- Positive Air Pressure Inside Chassis
- Accepts AT and Baby AT Motherboards
- Accepts Tall (AT High) Boards
- Holds up to 6 Half Hi 5¼ Drives
- Front Drive Bracket Accepts up to 4 Half Hi 5¼ Drives
- Removable Buried Bracket Holds up to 2 Half Hi 5¼ Hard Drives (Depends on Card Configuration)
- 204 Watt LINEAR Supply, High MTBF (over 200,000 hr), Field Replaceable
- 115/230 Operation
- Reasonably Priced

#### OPTIONS /ACCESSORIES

- 223 Watt LINEAR Supply
- Drive Door and Air Filter
- Slides for Rackmount
- Drive Bay Cover Plates
- Semi Custom Modification By Using Wide Range of Stock Modular Panels
- Custom Modifications

#### COMING-505 FOR ATX MB'S



#### DESCRIPTION

505 is a high quality, modular PC chassis for AT and Baby AT form factor motherboards. It features a low noise LINEAR Power Supply and 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.

505 supplies use a front-end transformer design to provide a high degree of power line isolation. Unlike typical PC supplies, all semiconductor devices are located downstream of the transformer, which protects them from power line transient hits. Machine tool controls regularly use this design approach. No shortcuts have been taken in design, component quality or performance. The low component stress levels of this supply yield a *demonstrated MTBF* of over 200,000 hours, two to five times that of typical PC supplies.

505 supplies have many features not found on PC type power supplies; low noise regulators, power up/down sequencing, real hi-

lo power OK monitoring, visual power OK indicator, and Fall/Back current limiters.

Large capacity, low noise linear regulators are employed on supply output; load changes on one output do not effect voltage on other outputs. Outputs are individually current limited. Output noise is ten times less than that of typical PC supplies; producing signal/noise ratio improvements on systems running high performance analog devices, such as A/D and D/A converters.

Cooling is provided by two 4½" diameter push-pull fans. The intake fan is a 110CFM while the rear panel fan is 70CFM, creating positive air pressure inside the chassis.

#### CUSTOMIZING

See inside Back Cover for a Customizing Guide. Stock Modular Panels are shown on pages 24 through 26. Accessories are on page 27.





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### SPECIFICATIONS

#### Input Voltage

105-125 or 210-250VAC,  
 47-63Hz, 1Φ, Jumper Selected

#### DC Outputs – See Table

#### Temperature

10 to 50C Internal Operating  
 -20 to 75C Storage

#### Humidity

5 to 95% RH, Operating,  
 Non-Condensing

#### PS MTBF

200,000 Hr, Demonstrated

#### Size

##### Rackmount:

4U (7")H x 19" Panel x 23.5" D

##### Desktop:

7.4"H x 17"W x 23.8"D

#### Weight

35 Pounds, 40 UPS Shipping

#### Finish

External Surfaces Painted

##### Rackmount:

Rack panel textured, other surfaces  
 smooth

##### Desktop:

All surfaces textured except back  
 and bottom

### POWER SUPPLY TABLE

PS Model	Output Watts		DC OUTPUT RATINGS			
	Static	Peak	+5V	+12V	-5V	-12V
-1	204W	234W	20A	7.5A – 10pk	0.5A	0.5A
-4	223W	247W	30A	5A – 7pk		

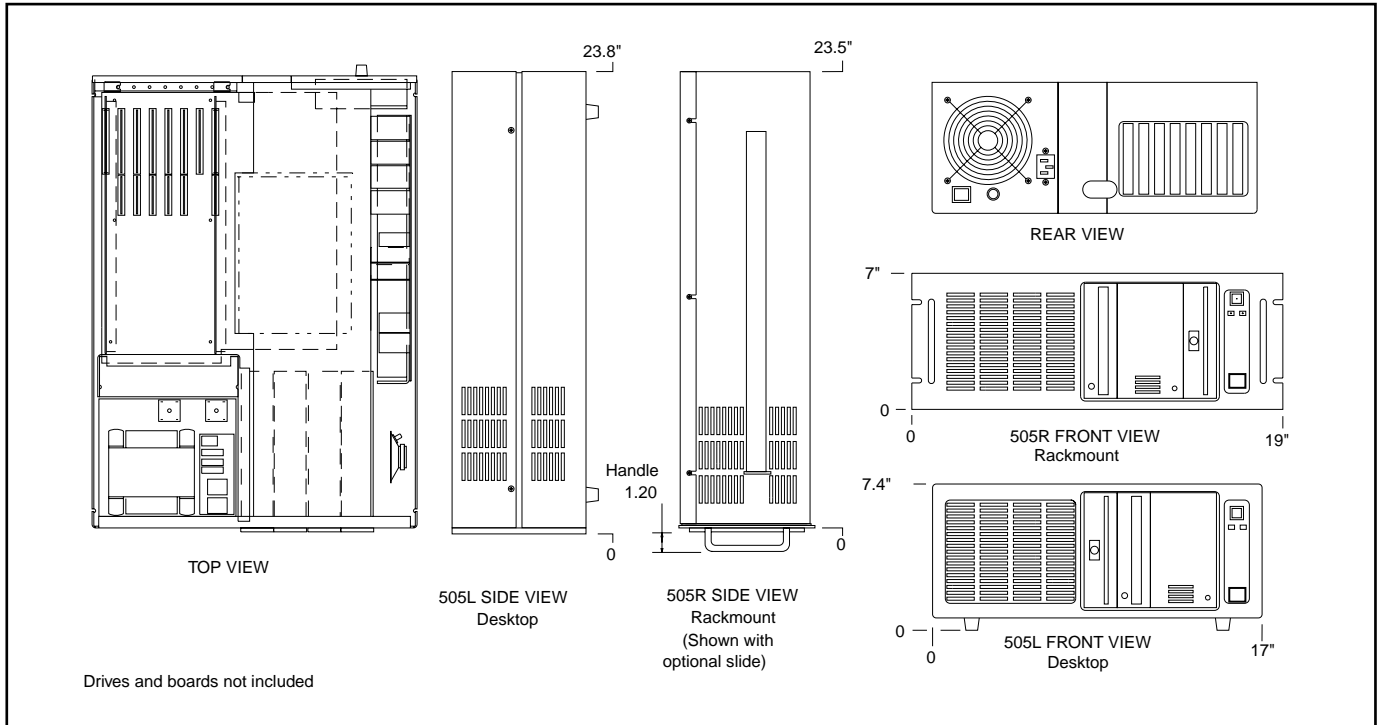
### ORDERING GUIDE & PRICES

#### M505 [ ] - [ ] - A - A8 - 10 - 0 - [ ]

Cabinet Style	Power Supply	Cabinet Color
R = Rack	1 = 204W Linear	B = Black
L = Desktop	4 = 223W Linear	W = Off White

MODEL	PRICE
M505R-1-A-A8-10-0-B	\$403
M505R-4-A-A8-10-0-B	\$443
M505L-1-A-A8-10-0-B	\$433
M505L-4-A-A8-10-0-B	\$473

(Black and Off White same price)





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## 505 Motherboard Version – Modular Panels

**Rack Panels**

- 505-213 \$20 Standard
- 505-228 \$20 Vents and Switches
- 505-215 \$20 Switches only
- 505-216 \$20 Blank
- 505-217 \$20 Drives and Switches
- 505-214 \$40 24" Wide Standard Rack Panel

**Drive Subpanels**

- 505-135 \$18 3 Drive Horiz
- 505-136 \$18 2 Drive Horiz
- 505-137 \$18 1 Drive Horiz
- 505-130 \$18 4 Drive Vert (505 Std)
- 505-131 \$18 3 Drive Vert
- 505-132 \$18 2 Drive Vert
- 505-133 \$18 1 Drive Vert
- 505-138 \$18 Vents Only
- 505-134 \$18 Blank
- Custom to your drawing

**FRONT VIEW**

- INTAKE AIR FILTER (32 SQ IN X 3/8" THICK, WASHABLE MEDIA)
- HINGED DRIVE ACCESS DOOR (See P/N's below)
- DOOR LOCK THUMBSCREW

**SIDE**

Drive Access Door shown partially

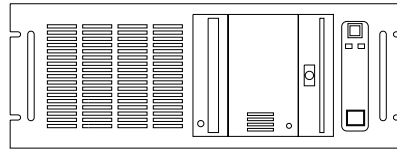
505-227 \$60 Drive Door and Air Intake Filter Assembly (Shown)  
 505-247 \$65 Drive & Switch Door and Air Intake Filter Assembly (Not Shown)  
 505-226 \$55 Air Intake Filter Assembly, NO Door (Not Shown)

**SPECIAL P/N**

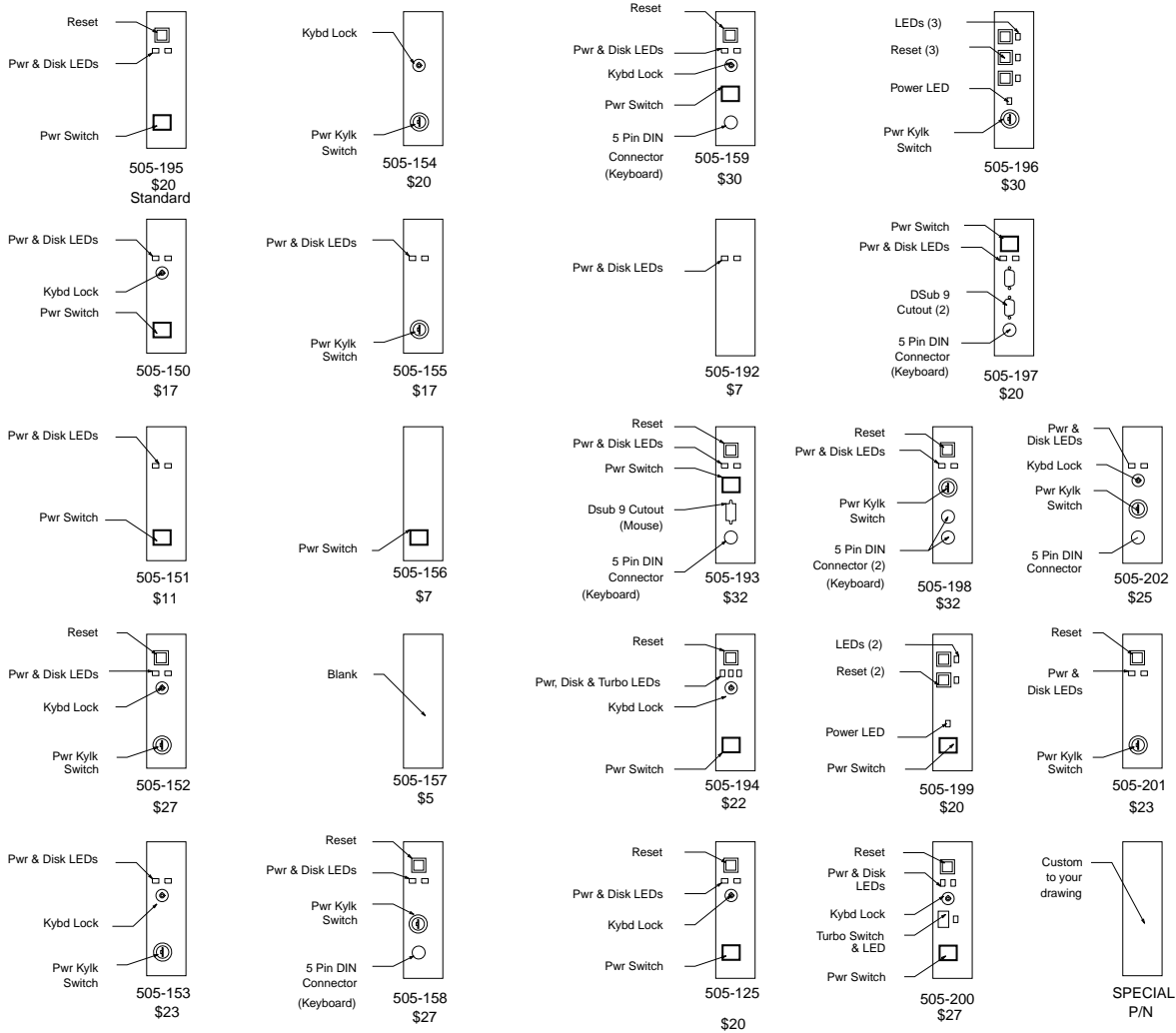
Drives not included



## 505 Motherboard Version – Modular Panels



### Switch Subpanel Assemblies

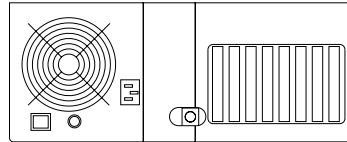




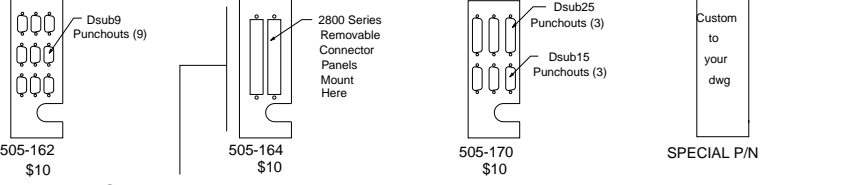
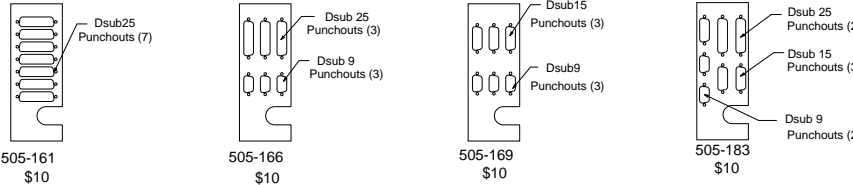
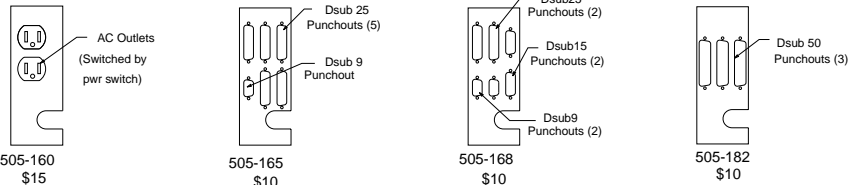
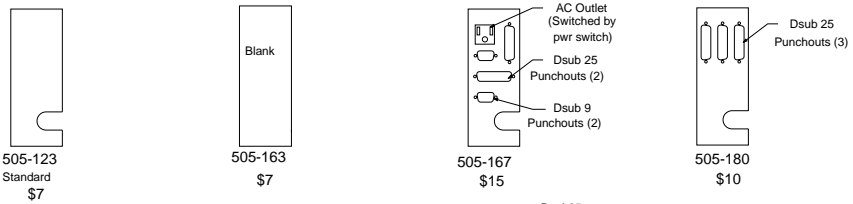
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## 505 Motherboard Version – Modular Panels



Connector Subpanels



- MiniDIN6 & DSub25 2810-152
- MiniDIN6 2810-151
- SCSI (HD68) (Screw Lock) 2810-150
- SCSI (HD68) (With Latch) 2810-147
- Telcon24 (IEEE 488) 2810-133
- Telcon36 2810-126
- Telcon50 (Screw) 2810-123
- Telcon50 (Ball) 2810-140

### 2800 Series Removable Connector Punchout Panels

- 50 pin (.1"x.1") 2810-122
- 34 Pin (.1"x.1") 2810-124
- 20 pin (.1"x.1") 2810-131
- Blank 2810-127
- Dsub 9 2810-138
- Dsub15 2810-137
- Dsub25 2810-125
- Dsub37 2810-135
- Dsub50 2810-136
- Dsub9 & Dsub15 2810-142
- Dsub9 & Dsub25 2810-143
- Dsub9 2810-145
- SCSI 2 (HD50) 2810-141
- DIN5 (3) (Metal Only) 2810-146
- DIN5 (3) (Includes wired DIN5 Connectors) 2810-144 \$15

2810 Series Connector Panels above are \$3, except as noted.



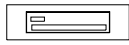
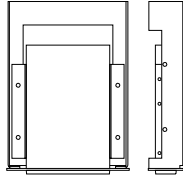
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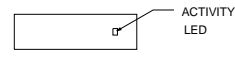
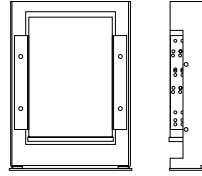
## 505 - Accessories

### 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

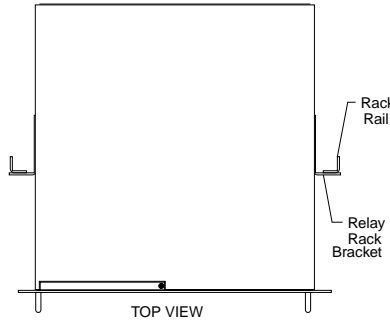
5 1/4 HORIZ Mount		
PART #	SIZE	PRICE
590-450	HALF HI	\$8
590-455	FULL HI	

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

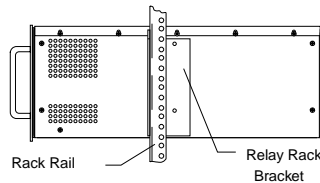
### RELAY RACK BRACKETS

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

590-325 \$10/PR



TOP VIEW

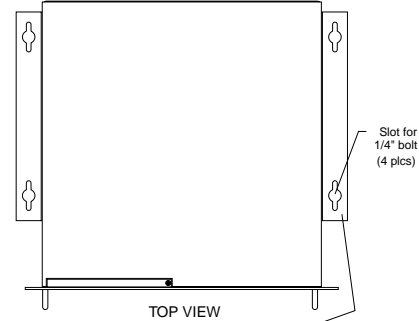


SIDE

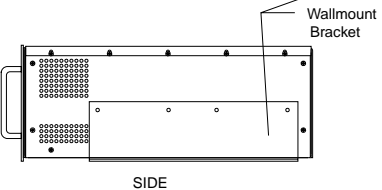
### WALL MOUNT BRACKETS

Attach rackmount chassis to  
 wall or other flat surface

590-320 \$20/PR



TOP VIEW

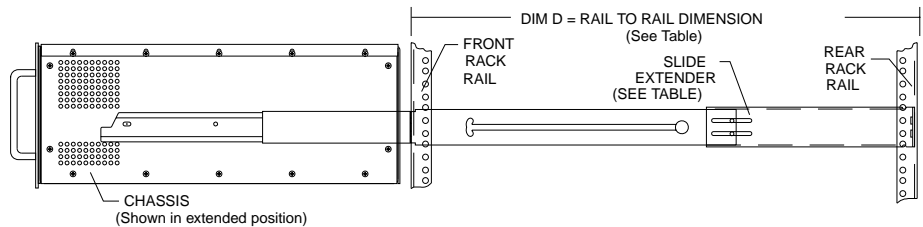


SIDE

### SLIDES & EXTENDERS

EXTENDER TABLE		
DIM D	EXT P/N	PRICE
24.1 TO 30.5	590-380	\$8/PR

SLIDE24 \$50/PR  
 Slide for 505, 515 & 590RX Series



CHASSIS  
 (Shown in extended position)

Drives not included