



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

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## 505 – Passive Backplane Version

**Industrial Computer Chassis for Passive Backplanes up to 14 Slots, LINEAR 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 ISA or PCI Passive Backplanes up to 14 Slots
- Accepts Tall (AT High) Boards
- Front Drive Bracket  
Accepts up to 4 Half Hi 5 $\frac{1}{4}$  Drives (Depends on Front Card Cage)
- 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



### DESCRIPTION

505 is a high quality, modular PC chassis for ISA or PCI passive backplanes. 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.

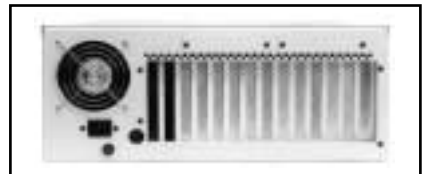
Large capacity, low noise linear regulators are employed on *each* supply output; load changes on one output do not effect voltage on other outputs. Outputs are individually current limited. Output noise is ten times less than that of typical PC supplies; producing signal/noise ratio improvements on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

Cooling is provided by two 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 25 and 31. Accessories are on page 27.





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## 505 – Passive Backplane Version, 8 Slot Front Card Cage

### 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

(8 Slot Front Card Cage)

#### M505 [ ] - [ ] - A14 - A8 -10 - [ ] - [ ]

##### Cabinet Style

R = Rack  
 L = Desktop

##### Power Supply

1 = 204W Linear  
 4 = 223W Linear

##### Installed Backplane

0 = None  
 14 = 14 Slot ISA  
 Consult Factory for  
 Other Backplane Types

##### Cabinet Color

B = Black  
 W = Off White

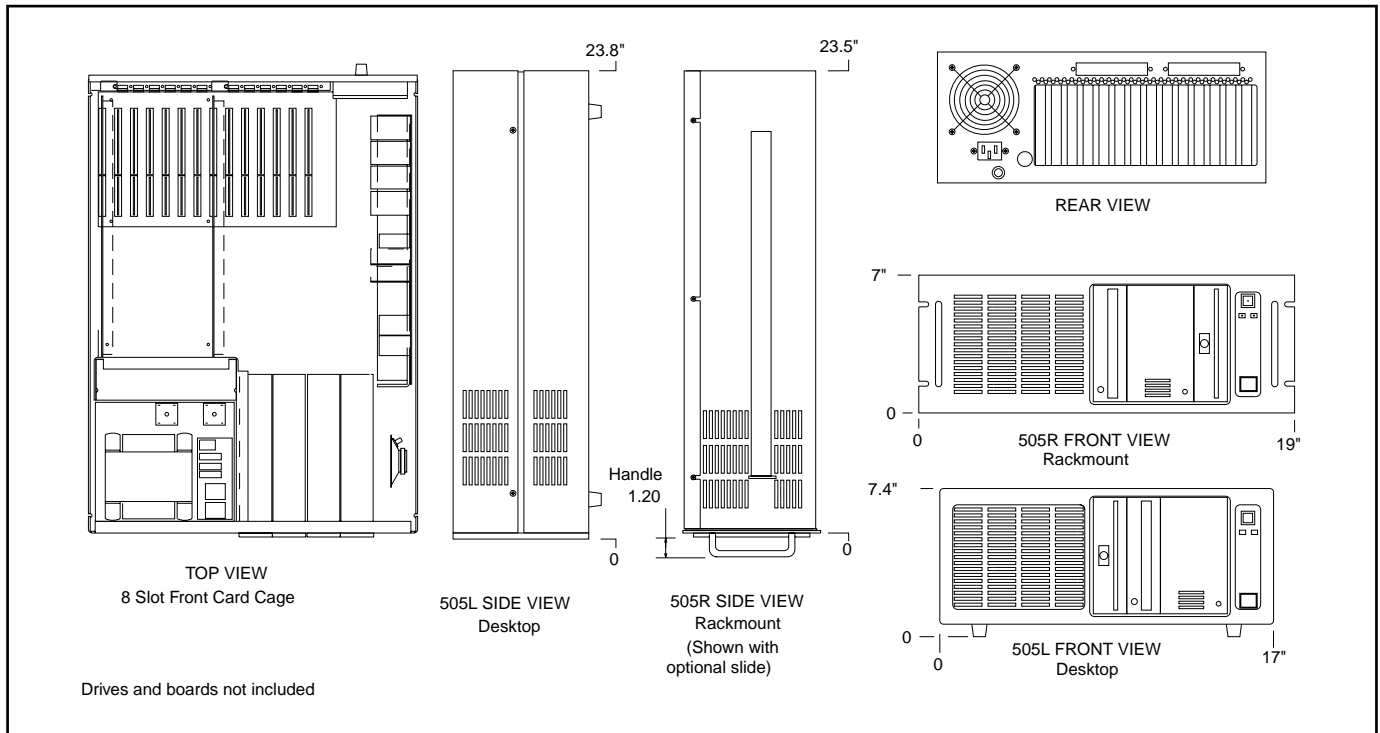
MODEL	PRICE
M505R-1-A14-A8-10-0-B	\$403
M505R-4-A14-A8-10-0-B	\$443
M505L-1-A14-A8-10-0-B	\$433
M505L-4-A14-A8-10-0-B	\$473

#### ADDER FOR INSTALLED PASSIVE BACKPLANE

TYPE	PRICE
14 = 14 Slot ISA	\$110

Consult Factory for  
 Other Backplane Types

(Black and Off White same price)





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## 505 – Passive Backplane Version, 12 Slot Front Card Cage

### 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

#### 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

(12 Slot Front Card Cage)

#### M505 [ ] - [ ] - A14 - A12 - 10 - [ ] - [ ]

##### Cabinet Style

R = Rack  
 L = Desktop

##### Power Supply

1 = 204W Linear  
 4 = 223W Linear

##### Installed Backplane

0 = None  
 14 = 14 Slot ISA  
 Contact Factory for  
 Other Backplane Types

##### Cabinet Color

B = Black  
 W = Off White

#### MODEL

M505R-1-A14-A12-10-0-B

M505R-4-A14-A12-10-0-B

M505L-1-A14-A12-10-0-B

M505L-4-A14-A12-10-0-B

#### PRICE

\$403

\$443

\$433

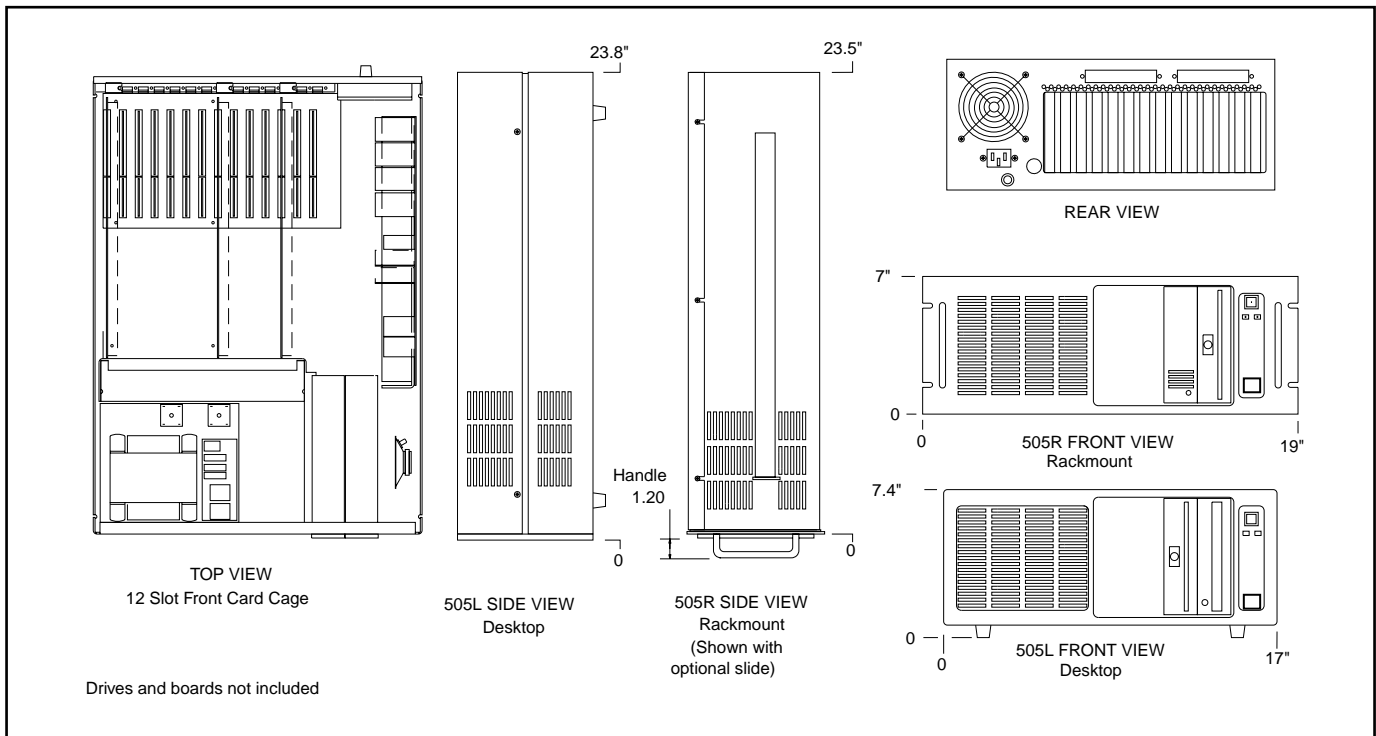
\$473

#### ADDER FOR INSTALLED PASSIVE BACKPLANE

TYPE	PRICE
14 = 14 Slot ISA	\$110

Contact Factory for  
 Other Backplane Types

(Black and Off White same price)





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## 505 Passive Backplane Version – Modular Panels

