



# 19" RACKS & DATA CENTER SOLUTIONS

TECHNOLOGICALLY INNOVATED ENCLOSURE SYSTEM

## INTRODUCTION

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TIMIK is a Canadian company designs & manufactures TIMIK Modular Panel Systems, Electrical Enclosures, Custom Design Enclosures and 19" Racks & Data Center Solutions and exports to many countries around the world.

TIMIK products are manufactured in an ultra modern production plant located in Sri Lanka installed with high-tech machines, CNC machines & robots.

Our Research & Development team with many years of R & D experiences, continuously develops products to be the best in the market using the best technologies available in the world.

Our highly skilled, well trained & motivated workforce, backed by committed & quality conscious management, manufactures high quality products at a minimum lead time at the lowest possible cost.

The commitment, investment, innovations and continuous R & D, make us at the forefront of the enclosure industry with the best technical solutions.

### TIMIK Range of Products

- Modular Panel System
- Wall Mounting Box Enclosures
- Distribution Boards ( Heavy Duty & Light Duty & Australian & New Zealand Type)
- Terminal Boxes
- Stainless Steel Box Enclosures
- Stainless Steel Terminal Boxes
- 19" Racks & Data Center Solutions

TIMIK Modular Panel System, Electrical Enclosures, 19" Racks and Data Center Solutions are manufactured according to relevant international standards and practices.

TIMIK Modular Panel System is designed and manufactured according to IEC 61439 1&2 & AS/NZS 61439 - 1 & 2 standards.

TIMIK Wall Mounting Enclosures and Terminal Boxes are designed and manufactured according to IEC 62208 standards.

TIMIK Distribution Boards are designed and manufactured according to IEC 61439 – 3 & AS/NZS 61439 - 3 & IEC 62208 standards.

TIMIK Stainless Steel Box Enclosures and Stainless Steel Terminal Boxes are designed and manufactured according to UL 50 & IEC 62208 standards.

TIMIK 19" Racks & Data Center Solutions are designed & manufactured according to UL 2416 & UL 2755 standards.

TIMIK products are tested according to relevant international standards at accredited test laboratories as applicable and please contact us for a list of tests and certificates.

***TIMIK - Technologically Innovated Enclosure system renowned worldwide for technology & quality.***

**FREE STANDING 19" RACKS**

TIMIK Free Standing 19" Racks are designed and manufactured according to UL 2416 standard and are suitable for different applications in IT (LAN, Data Center) and the Telecommunication industry.



FS 19" Rack - with front Mesh Door

<b>Available Sizes</b>	<b>Height</b>	<b>18U - 50U</b>	<b>Available Colors</b>	<b>RAL 9005</b> <span style="display:inline-block; width:15px; height:15px; background-color:black;"></span>	<b>RAL 7035</b> <span style="display:inline-block; width:15px; height:15px; background-color:lightgrey;"></span>
	<b>Width</b>	<b>600mm &amp; 800mm</b>		<i>Other colors on request.</i>	
	<b>Depth</b>	<b>600mm, 800mm, 1000mm &amp; 1200mm</b>			

- TIMIK Free Standing 19" Racks are made of standard modular parts and available in CKD (completely knocked down) form or completely assembled form.
- TIMIK Free Standing 19" Racks mainly consist of bolted type rack structure, different types of Doors, Side Covers and Top - Bottom Cover plates.
- TIMIK 19" Rack Structure with Innovative five-bended vertical columns can handle the extra heavy loads onto the rack.
- Types of Doors: Single or Dual Mesh door with Open Areas (OA) up to 68%, Single or Dual Mesh door with OA up to 82% (specially designed for server racks), Clear or tinted tempered Glass door, Steel door or Steel door with air filter and many other types of doors.
- Door includes handle with common key lock. Separate key locks or intelligent key locks (Bio-Metric, Number Pad, Smart Card) are available on request.
- Mounting Rails: U-marked, adjustable heavy-duty 19" Mounting Rails.

**WALL MOUNTING 19" RACKS**

TIMIK Free Standing 19" Racks are designed and manufactured according to UL 2416 standard and are suitable for different applications in IT (LAN, Data Center) and the Telecommunication industry.

TIMIK Wall Mounting 19" Racks available as,

1. Wall Mounting 19" Racks
2. Wall Mounting Side open type 19" Racks
3. Wall Mounting Swing type 19" Racks



Wall Mounting 19" Rack



Wall Mounting Side open type 19" Rack



Wall Mounting Swing type 19" Rack

<b>Available Sizes</b>	<b>Height</b>	<b>3U - 20U</b>	<b>Available Colors</b>	<b>RAL 9005</b>	<b>RAL 7035</b>
	<b>Width</b>	<b>600mm</b>		<i>Other colors on request.</i>	
	<b>Depth</b>	<b>400mm, 600mm, 800mm</b>			

- Wall Mounting 19" Rack comes with different types of doors as annealed or tempered clear glass doors, annealed or tempered tinted glass doors, Mesh doors, Steel doors or Steel doors with Louvers.
- Wall Mounting 19" Rack includes 01 set of U-marked adjustable mounting rails.

**COMPARTMENT 19" RACKS**

Compartment 19" Racks (Colocation Racks) come with fully or partly separated compartments. That can be used for different applications of customers mainly in Data Centers or Telecom room applications. Designed and Manufactured according to UL 2416 & UL 2755 standards.



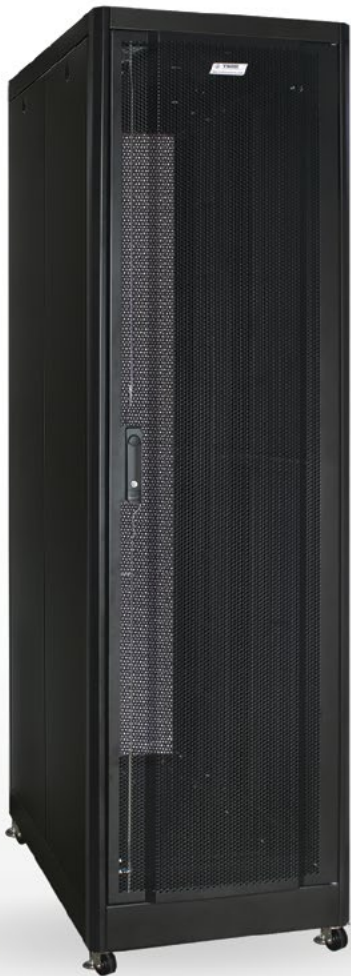
3 Compartments 19" Rack

<b>Available Sizes</b>	<b>Height</b>	<b>18U - 50U</b>	<b>Available Colors</b>	<b>RAL 9005</b> <span style="display:inline-block; width:10px; height:10px; background-color:black;"></span>	<b>RAL 7035</b> <span style="display:inline-block; width:10px; height:10px; background-color:lightgrey;"></span>
	<b>Width</b>	<b>600mm &amp; 800mm</b>		<i>Other colors on request.</i>	
	<b>Depth</b>	<b>600mm, 800mm, 1000mm &amp; 1200mm</b>			

- TIMIK Compartment 19" Racks are available in 2,3,4 and 5 compartments as per the customer's requirements.
- Different types of doors are available as Mesh doors, Dual Mesh doors, Steel doors, Glass doors, and Steel doors with Louvers.
- Access between the compartments are limited for Power Distribution Units (PDU) and vertical Cable managements as standard. Customized racks are available on request.
- TIMIK 19" Rack Structure with Innovative five-bended vertical columns can handle the extra heavy loads onto the rack.
- Doors include handle with a common key lock. Separate key locks or intelligent key locks (Bio-Metric, Number Pad, Smart Card) are available on request.
- Mounting Rails: U-marked, adjustable heavy-duty 19" Mounting Rails.

**DATA CENTER 19" RACKS - DATCET RACKS**

TIMIK DATCET 19" Racks are specially designed for Data Centers and comply to UL 2416 and UL 2755 standards.



Mesh door



Tray with wire guides



Mounting rail



Adjustable legs/  
Castor wheels



Airflow management



Access security



Cable entry plates  
with brush



PDU Unit



Earth bar

**| DATCET 19" Rack**

<b>Available Sizes</b>	<b>Height</b>	<b>40U, 42U, 45U, 50U</b>	<b>Available Colors</b>	<b>RAL 9005</b> <span style="display:inline-block; width:10px; height:10px; background-color:black;"></span>	<b>RAL 7035</b> <span style="display:inline-block; width:10px; height:10px; background-color:gray;"></span>	
	<b>Width</b>	<b>600mm &amp; 800mm</b>		<i>Other colors on request.</i>		
	<b>Depth</b>	<b>1000mm &amp; 1200mm</b>				

- Comply with international standards and Data Center certification requirements.
- TIMIK - DATCET Data Center 19" Racks come with heavy-duty rack structure with high loading capacity of up to 1200 Kg.
- Fully Perforated single Mesh door for front and fully Perforated Dual Mesh door for back with over 80% OA for better airflow, Front sealing panels and brush type cable entry opening to minimize air leakage.

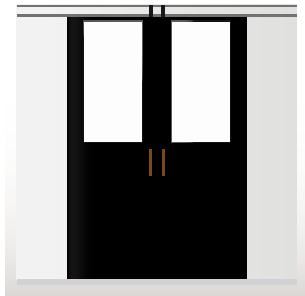
**AISLE CONTAINMENTS FOR DATA CENTERS**

TIMIK Aisle Containments are designed and manufactured to meet the data center requirements and comply to International standards. It comes with all parts & accessories to build up a complete Data Center with Cold / Hot Aisle Containments.



TIMIK Aisle Containment consists of different types of Containment Doors, Top Covers, Cable Management, Control Box, Air Sealing Panels and Accessories.

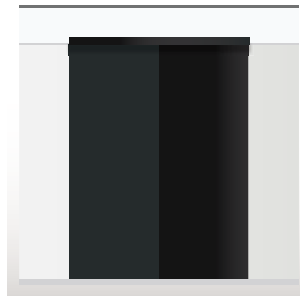
**CONTAINMENT DOOR SYSTEM**



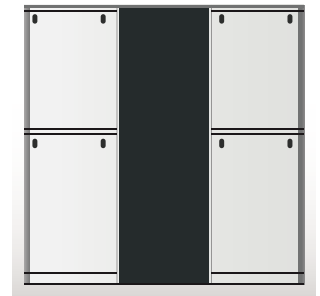
| Sliding Door



| Swing Door

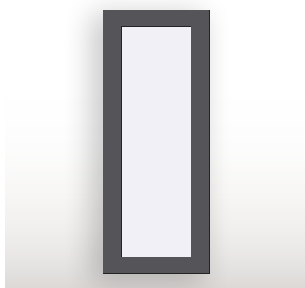


| Fixed Type Door

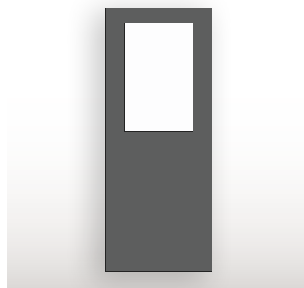


| Fixed Type Door/  
Cover without Frame

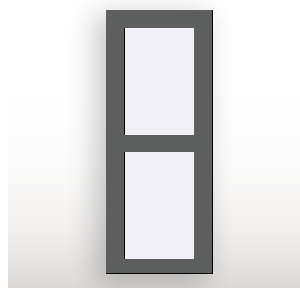
**CONTAINMENT DOORS**



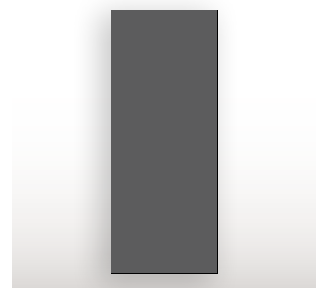
| Full Glass/ Perspex Door



| Half Glass/ Perspex Door



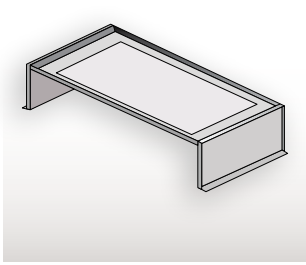
| Full Glass/ Perspex  
Two Section Door



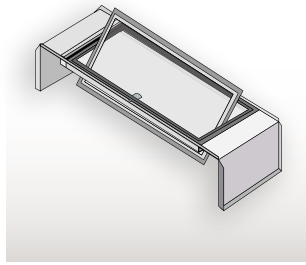
| Solid Steel Door

**AISLE CONTAINMENTS FOR DATA CENTERS**

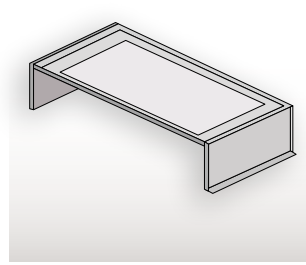
**CONTAINMENT TOP COVER**



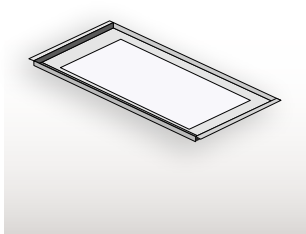
| Fixed Type Cover



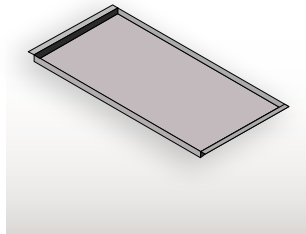
| Quick Open Type Cover



| Extended Top Cover

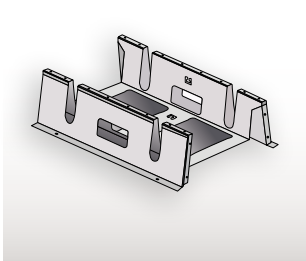


| Glass/ Perspex Cover

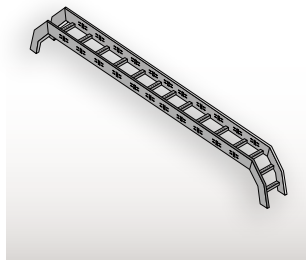


| Solid Steel Cover

**CONTAINMENT TOP CABLE MANAGERMENTS**



| Rack Roof Level Cable Management Tray



| Rack Roof Level Cross Management

**CONTAINMENT CONTROLLER**



- TIMIK Containment Controller comes with a stable and rigid design.
- Automatic operation of lights in the presence of motion and ability to operate LED lights by switching using external 2-way I/O switches attached on the doors.
- This controller has provisions for one or two power sources and the capability of operate to open top covers in case of fire.
- The Controller can be customized as per the customer's requirements.



**TWO POSTS & FOUR POSTS OPEN 19" RACKS**

TIMIK Two Posts Slim 19" Racks are designed and manufactured according to UL 2416 standards and use to mount LAN, Data Center and Telecommunication equipment.



Two Posts Slim 19" Rack



Two Posts Slim 19" Rack with Front Cable Management



Four Posts Open 19" Rack Structure (W=600mm)



Four Posts Open 19" Rack Structure (W=800mm)

Available Sizes	Height	18U - 50U	Available Colors	RAL 9005	RAL 7035
	Width	600mm & 800mm (Four Posts Rack)		Other colors on request.	
	Depth	600mm, 800mm, 1000mm & 1200mm (Four Posts Rack)			

- TIMIK 19" Rack Structure with innovative five-bended vertical columns can handle the extra loads onto the rack.
- Mounting Rails: U-marked, adjustable or fixed heavy-duty 19" Mounting Rails.

**OUTDOOR 19" RACKS**

TIMIK Outdoor 19" Racks are designed and manufactured for outdoor applications and comply to UL 2416 and IEC 61969 - 1 & 2 & 3 standards. TIMIK Outdoor 19" Racks are available in Wall Mounting, Pole Mounting or Free Standing types.



Outdoor 19" Rack - Wall Mounting



Outdoor 19" Rack - Pole Mounting

<b>Available Sizes</b>	<b>Height</b>	<b>3U - 20U</b>	<b>Available Colors</b>	<b>RAL 7035</b> <input type="checkbox"/>
	<b>Width</b>	<b>600mm &amp; 800mm</b>		<i>Other colors on request.</i>
	<b>Depth</b>	<b>400mm &amp; 600mm</b>		

- Wall Mounting Rack includes 01 set of U-marked adjustable mounting rails.



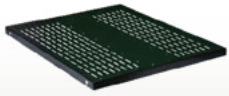
Outdoor 19" Rack - Free Standing

<b>Available Sizes</b>	<b>Height</b>	<b>18U-45U</b>	<b>Available Colors</b>	<b>RAL 7035</b> <input type="checkbox"/>
	<b>Width</b>	<b>600mm &amp; 800mm</b>		<i>Other colors on request.</i>
	<b>Depth</b>	<b>650mm, 850mm &amp; 1050mm</b>		

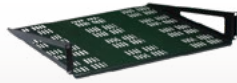
- Double Wall insulated 19" Racks are available. Insulated double wall avoids unnecessary heat transfer between inside & outside of the Rack.

ACCESSORIES FOR 19" RACKS

EQUIPMENT MOUNTING ACCESSORIES



Fixed Shelf



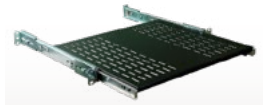
Fixed Cantilever Shelf



Fixed Equipment Supports

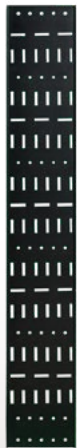


Sliding Equipment Supports



Sliding Shelf

CABLE MANAGERMENTS



Vertical Cable Management Tray 75mm, 110mm & 150mm



Vertical Cable Management Tray with Wire Guides 150mm



Vertical Cable Management Tray Heavy Duty 150mm



Vertical Cable Management Box type for W - 800mm Racks



Vertical Cable Management Tray with D Rings 130mm



Front & Back Rail Mount Horizontal Cable Management Holder



19" Horizontal Cable Management with Plastic Rings 1U & 2U



19" Horizontal Cable Management with Steel D Rings 1U & 2U



Cable Management Rings - Rail Mount

CLIMATE CONTROL ACCESSORIES - 19" FRONT PLATES



19" Front Plate - Steel Solid



19" Front Plate - Steel Solid Plate without bend



19" Front Plate - Steel Grill



19" Front Plate - Plastic - Clip Type



19" Front Plate - Steel with Brush - Middle Opening



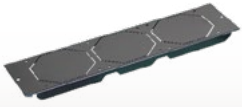
19" Front Plate - Steel with Brush - Side Opening



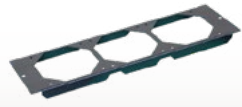
19" Front Plate - Steel with Brush & Back Wire Guide

ACCESSORIES FOR 19" RACKS

FAN UNITS



Top & Bottom - Fan Plate - Semi Punched - No Fans



Top & Bottom - Fan Plate Fully Punched - No Fans



Top & Bottom - Fan Plate - 1 x 230V AC Fan  
\*DC & different voltages available.



Top & Bottom - Fan Plate - 2 x 230V AC Fans  
\*DC & different voltages available.



Top & Bottom - Fan Plate - 3 x 230V AC Fans  
\*DC & different voltages available.



19" Rack Mount Fan Tray - 4 Fans 230V 1U  
\*DC & different voltages available.



Thermometer



Temperature Control Plate 230V, AC  
\*DC & different voltages available.

MAINTENANCE SUPPORT ACCESSORIES



Castor Wheels - with 3mm Bracket for FS Rack



Transport Wheel Frame set with wheels for WM Rack



Rack Light - for W- 600mm Rack 19"x1U

OTHER ACCESSORIES



Cage Nuts



Screws & Washers



Earthing Braid

POWER DISTRIBUTION UNITS (PDU)



Basic PDU



Metered PDU



Intelligent PDU

**CUSTOM MADE RACKS**

Every industry needs custom designed bespoke 19" Racks & Cabinets.

Our well-experienced team of Research & Development (R & D) engineers can design special 19" Racks & Cabinets as per customer requirements.

Our state of the art manufacturing facility backed by well trained skilled workforce delivers high quality 19" Racks & Cabinets made to your design.



| External width 1000mm 19" Free Standing Rack



| ELV Racks for Apartments



| 19" Rack for Containment Controller



| Wall Mounting 19" Rack – Small Depth

## Technical Specifications

### Standards

Designed and manufactured according to

**IEC 60297. BE EN 60297 - Mechanical structures for electronic equipment**

**ISO/IEC 22237, BS ISO/IEC 22237 - The international standard for Information technology – Data center facilities and infrastructures**

**UL 2416 - Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems**

**UL 2755 - Modular Data Centers**

**EIA-310-D - Electronic Industries Alliance**

**IEC 60917. BS EN 60917 - Modular order for the development of mechanical structures for electronic equipment practices**

**IEC 62208 2011-08 Ed 2.0**

**IEC61969, BS EN 61969 standards**

**IEC 60529:1989, BS EN 60529 standards**

IEC – International Electrotechnical Commission

BS EN - British Standards European Norm

ISO - International Organization for Standardization

UL – Underwriters’ Laboratories

EIA - Electronic Industries Alliance

### Electrical Specifications

Rated operational voltage (Ue) : 110V / 120V AC-230V / 240V AC

Rated frequency : 50-60 Hz

DC : 12V / 24V / 48V as applicable

### General Specifications

#### Installation:

Free Standing 19" Racks : Indoor

Wall Mounting 19" Racks & 19" Frames : Indoor

Compartment 19" Racks : Indoor

Two Posts & Four Posts open 19" Racks : Indoor

Outdoor 19" Racks : Outdoor

Data Center 19" Racks (DATCET Racks) : Indoor

Data Center Solutions : Indoor

Accessories for 19" Racks : Indoor or Outdoor (as applicable)

#### Mounting:

Free Standing 19" Racks : Free Standing

Wall Mounting 19" Racks & 19" Frames : Wall Mounting or Ceiling Mounting or Cable Channel Mounting or Table top (as applicable).

Compartment 19" Racks : Free Standing

Two Posts & Four Posts open 19" Racks : Free Standing

Outdoor 19" Racks : Free Standing or Wall Mounting or Pole Mounting (as applicable)

Data Center 19" Racks (DATCET Racks) : Free Standing

Data Center Solutions : Free Standing

Accessories for 19" Racks : Not Applicable

## Technical Specifications

### Degree of Protection:

Free Standing 19" Racks :	IP20
Wall Mounting 19" Racks & 19" Frames :	IP20
Compartment 19" Racks :	IP20
Two Posts & Four Posts open 19" Racks :	Not Applicable
Outdoor 19" Racks :	IP54
Data Center 19" Racks (DATCET Racks) :	IP20
Data Center Solutions :	IP20 or IP54 (as applicable)
Accessories for 19" Racks :	Not Applicable

### Operational Temperature:

Indoor 19" Racks :	10 °C to 35 °C
Outdoor 19" Racks :	-20 °C to 55 °C

### Outdoor Rack specifications:

Impact Test :	Degree of protection against external mechanical impacts (IK code) IK 10
Resistance to Corrosion :	Severity test B
Resistance to Ultra-Violet (UV) radiation	

## Material Specifications

Please refer catalogue to get material specifications of specific item.

## Paint Specifications

Type :	Powder Coated
Powder :	Epoxy Polyester powder
Powder coating thickness :	60-80 µm
Gloss level :	Semi-Gloss 50-70%
Texture :	Fine Texture
Curing temperature :	180 °C
Painting system :	Conveyorised Automated Powder Coating Process
Pre-treatment process :	01 Degreasing/Derusting/ Cleaning & Process 02 Water Cleansing & Process 03 Phosphating
Pre-heating :	IR (Infra-Red) heaters
Powder coating :	Tribo Static Powder Coating System
Curing :	IR (Infra-Red) Heaters

Please refer catalog to get paint specifications of specific item



**RAL 7035**



**RAL 9005**

Products, Designs & Technical Specifications, given in this catalogue may be changed without prior notice.

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Technical Specifications of other types of Wall Mounting Enclosures on request.

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## TIMIK RANGE OF PRODUCTS

### 19" Racks & Data Center Solutions

- Free Standing 19" Racks
- Wall Mounting 19" Racks & 19" Frames
- Compartment 19" Racks
- Two Posts & Four Posts open 19" Racks
- Outdoor 19" Racks
- Data Center 19" Racks (DATCET Racks)
- Data Center Solutions
- Accessories for 19" Racks

### Electrical Panels & Enclosures

- Modular Panels
- Wall Mounting Box Enclosures
- Distribution Boards
- Terminal Boxes
- Stainless Steel Enclosures
- Stainless Steel Terminal Boxes



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**ELECTRICAL ENCLOSURES & 19" RACKS**



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