

# 19" RACKS & DATA CENTER SOLUTIONS



TECHNOLOGICALLY INNOVATED ENCLOSURE SYSTEM

## INTRODUCTION

TIMIK is a Canadian company design & manufacture TIMIK Modular Panel System, Electrical Enclosures, Custom Design Enclosures and 19" Racks & Data Center Solutions and export 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, manufacture 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 IEC61439 1&2 standards.

TIMIK Wall Mounting enclosures and terminal boxes are designed and manufactured according to IEC 62208 standard.

TIMIK Distribution Boards are designed and manufactured according to IEC61439 - 3 & IEC 622608 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 UL2416 & UL2755 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 UL2416 international standard and are suitable for different applications in IT (LAN, Data Center) and the Telecommunication industry.





*Rack with  
front Mesh Door*



*Rack with  
front Dual Mesh Door*



*Rack with  
front Glass Door*

- Available Sizes: Height : 18U - 50U  
Width : 600mm & 800mm  
Depth : 600mm, 800mm, 1000mm & 1200mm
- 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 type 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 on to the rack.
- Type 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.
- Available Colors:  RAL9005  RAL7035
- Other Colors on request.

## WALL MOUNTING 19" RACKS

TIMIK Wall Mounting 19" Racks are designed and manufactured according to UL2416 standard and are suitable for different applications in IT and Telecommunication industry.

TIMIK Wall Mounting 19" Racks available as,

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





*Wall Mounting Rack*



*Wall Mounting Side open type Rack*



*Wall Mounting Swing type Rack*

- Available Sizes: Height : 3U - 20U  
Width : 600mm  
Depth : 400mm, 600mm, 800mm
- Wall Mounting Racks come with a different type of doors as annealed or tempered clear glass door, annealed or tempered tinted glass door, Mesh door, Steel door or Steel door with louvers.
- Wall Mounting Rack includes 01 set of U marked adjustable mounting rails.
- Available Colors:  RAL9005  RAL7035
- Other Colors on request.

## COMPARTMENT 19" RACKS



Compartment 19" Racks (Colocation Racks) come with fully or partly separated compartments that can use for different applications of customer's mainly in Data Centers or Telecom room applications. Designed and Manufactured according to UL2416 & UL2755 standards.



*3 Compartments 19" Rack*



*2 Compartments 19" Rack*

- Available Sizes: Height : 18U - 50U  
Width : 600mm & 800mm  
Depth : 600mm, 800mm, 1000mm & 1200mm
- TIMIK Compartment 19" Racks are available in 2,3,4, and 5 compartments as per the customer's requirements.
- Different types of doors available as Mesh door, Dual Mesh door, Steel door, Glass door, Steel door with louvers.
- Access between the compartments are limited for Power Distribution Units (PDU) & 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 on to 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.
- Available Colors:  RAL9005  RAL7035
- Other Colors on request.

## DATA CENTER 19" RACKS - DATCET RACKS

TIMIK DATCET Racks are specially designed for Data Centers and comply to UL2416 and UL2755 standards.



*Mesh door*



*Tray with  
wire guides*



*Mounting rail*



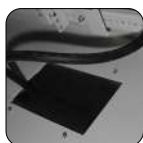
*Adjustable legs/  
Castor wheels*



*Airflow  
management*



*Access  
security*





*Cable entry plates  
with brush*



*PDU Unit*



*Earth bar*

- Available Sizes: Height : 40U, 42U, 45U, 50U  
Width : 600mm & 800mm  
Depth : 1000mm & 1200mm
- Comply with Tier 3, Tier 4 and Tier 5 Data Center certification requirements.
- TIMIK- DATCET Data Center 19" Racks come with heavy-duty Rack structure with high loading capacity 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 the air leakage.
- Available Colors:  RAL9005  RAL7035
- Other Colors on request.



## AISLE CONTAINMENTS FOR DATA CENTERS

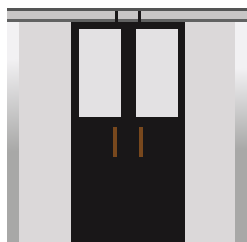
TIMIK Aisle Containments are designed and manufactured to meet the data center requirements and comply to UL2416 and UL2755 standards.

It comes with all parts & accessories to build up a complete Data Center with Cold / Hot Aisle Containments.

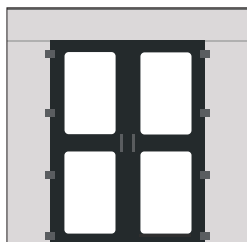


TIMIK Aisle Containment consists of different types of Containment Doors, Top Covers, Cable Management, Control Box, Air Sealing Panels and Accessories.

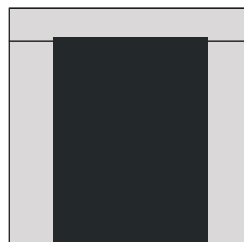
### CONTAINMENT DOOR FRAMES



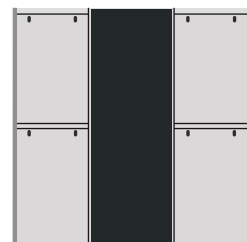
Sliding Door  
Frame



Swing Door  
Frame



Fixed Type Door  
Frame



Fixed Type Door/  
Cover without  
Frame

### CONTAINMENT DOORS



Full Glass/ Perspex  
Door



Half Glass/ Perspex  
Door



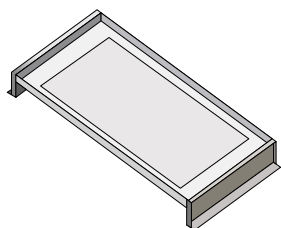
Full Glass/ Perspex  
Two Section Door



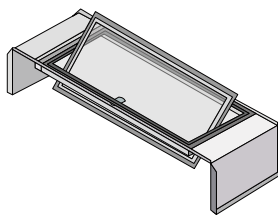
Solid Steel Door

## AISLE CONTAINMENTS FOR DATA CENTERS

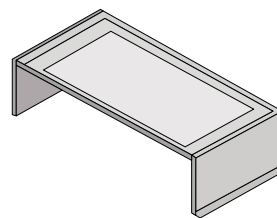
### CONTAINMENT TOP COVER FRAMS



Fixed Type  
Cover

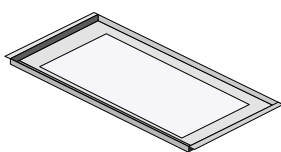


Quick Open Type  
Cover

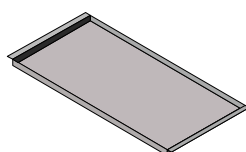


Extended Top  
Cover

### CONTAINMENT TOP COVERS

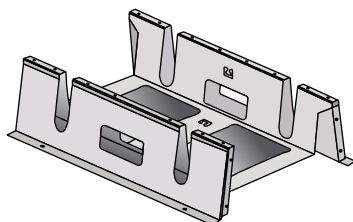


Glass/ Perspex Cover

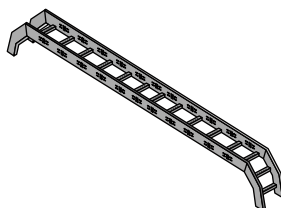


Solid Steel Cover

### 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 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 Racks are designed and manufactured according to UL2416 standard and use to mount LAN, Data Center and Telecommunication equipment.

### TWO POSTS SLIM RACK



### TWO POSTS SLIM RACK WITH FRONT CABLE MANAGEMENT





### FOUR POSTS OPEN RACK STRUCTURE (W=600mm)



### FOUR POSTS OPEN RACK STRUCTURE (W=800mm)



- Available Sizes: Height : 18U - 50U  
Width : 600mm & 800mm (Four Posts Rack)  
Depth : 600mm, 800mm, 1000mm & 1200mm (Four Posts Rack)
- TIMIK 19" Rack Structure with Innovative five-bended vertical columns can handle the extra loads on to the rack.
- Mounting Rails: U marked, adjustable or fixed heavy-duty 19" Mounting rails.
- Available Colors:  RAL9005  RAL7035
- Other Colors on request.


## OUTDOOR 19" RACKS

TIMIK Outdoor 19" Racks are designed and manufactured for outdoor applications and comply to UL2416 and IEC 61969 - 1 & 2 & 3 standards.

TIMIK Outdoor 19" Racks are available in wall mounting, pole mounting or floor standing types.


### OUTDOOR 19" RACK - WALL MOUNTING



- Available Sizes: Height : 3U - 20U  
Width : 600mm & 800mm  
Depth : 400mm & 600mm
- Wall mount rack includes 01 set of U marked adjustable mounting rail.
- Available Color:  RAL7035
- Other Colors on request.

### OUTDOOR 19" RACK - POLE MOUNTING



- Available Sizes: Height : 3U - 20U  
Width : 600mm & 800mm  
Depth : 400mm & 600mm
- Wall mount rack includes 01 set of U marked adjustable mounting rail.
- Available Color:  RAL7035
- Other Colors on request.






### OUTDOOR 19" RACK - FLOOR STANDING



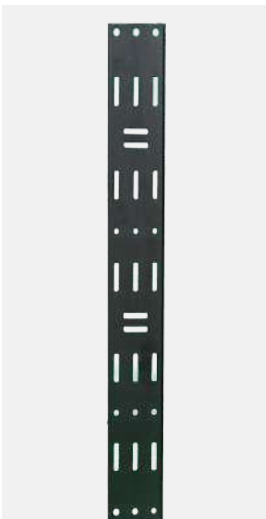
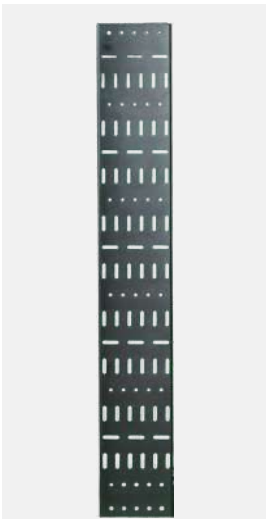











- Available Sizes: Height : 22U - 42U  
Width : 600mm  
Depth : 600mm, 800mm & 1000mm
- Available Color:  RAL7035
- Other Colors on request.

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	Vertical Cable Management Tray 110mm	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	19" Horizontal Cable Management with Steel D Rings	Cable Management Rings- Rail Mount - Small
				
	19" Front Plate - Steel with Brush - Side Opening	19" Front Plate - Steel with Brush - Middle Opening	19" Front Plate - Steel with Brush & Back Wire Guide	19" Front Plate - Plastic - Clip Type

## ACCESSORIES FOR 19" RACKS



19" Front Plate -  
Steel Grill



19" Front Plate -  
Steel Solid



19" Front Plate - Steel  
Solid Plate without bend

## CLIMATE CONTROL ACCESSORIES



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



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



Top & Bottom - Fan Plate  
- 1 x230V AC Fan



Top & Bottom - Fan Plate  
- 2 x230V AC Fans



Top & Bottom - Fan Plate  
- 3 x230V AC Fan



19" Rack Mount  
Fan Tray - 4  
Fans 230V 1U

## MAINTENANCE SUPPORT ACCESSORIES



Castor Wheels - with  
3mm Bracket for FS Racks



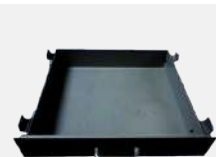
Transport Wheel Frame  
set with wheels for WM  
Rack



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



Manual Pocket



Document Tray

## RACK ASSEMBLY ACCESSORIES



Floor Anchoring Plates



19" Racks  
Jointing Brackets



Adjustable Feet -  
Anti Vibration  
M10X100 (set of 4)

## 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



## TECHNICAL SPECIFICATIONS

### Standards

Designed and manufactured according to

**UL 2416** - Audio/Video, information and communication technology equipment cabinet, enclosure and rack systems.

**UL 2755** - Modular Data Centers.

**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.

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

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

**IEC61969, BS EN 61969** standards.

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

IEC - International Electro technical 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	- Indoor
Compartment 19" Racks	- Indoor
Data Center 19" Racks - DATCET Racks	- Indoor
Aisle Containments for Data Centers	- Indoor
Two Posts & Four Posts open 19" Racks	- Indoor
Outdoor 19" Racks	- Outdoor
Accessories for 19" Racks	- Indoor

#### Mounting:

Free Standing

Wall Mounting / Pole Mounting



## TECHNICAL SPECIFICATIONS

### Degree of Protection:

- Indoor Racks - Degree of protection (IP code) - IP 20
- Outdoor Racks - Degree of protection (IP code) - IP54

### Operational Temperature:

- Indoor Rack - Operational Temperature 5 °C to 35 °C
- Outdoor Rack - Operational Temperature -30 °C to 55 °C

### Outdoor Rack specifications:

- Impact Test - Degree of protection against external mechanical impacts (IK code) IK10
- Resistance to corrosion- Severity test B
- Resistance to ultraviolet (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

 RAL9005  RAL7035

Other thickness and colors on request.

*Products, Designs & Technical Specifications, given in this catalog may be changed without prior notice. Designs of items given in this catalog are property of TIMIK Enclosures.*

*All Design and Manufacturing Rights Reserved. Technical Specifications of other Types of Wall Mounting Enclosures on request.*

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# TIMIK RANGE OF PRODUCTS

## 19" RACK & DATA CENTER SOLUTIONS

- Free Standing 19" Racks
- Wall Mounting 19" Racks
- Compartment 19" Racks
- Data Center 19" Racks - DATCET Racks
- Aisle Containments for Data Centers
- Two Posts & Four Posts Open 19" Racks
- Outdoor 19" Racks
- 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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e-Catalog

AUSTRALIA

CANADA

HONG KONG

SRI LANKA

UK



ELECTRICAL ENCLOSURES & 19" RACKS

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