



Horizon

FOR INDUSTRY

Totter's
TM

Network Racks &
Consoles



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Horizon for Industry

Main Site: Administration Office : 80 Rabaa Investment
Buildings, Nozha St., Ard El-Golf, Cairo, Egypt

Additional Site: Horizon for Industry., Factory: 72 El-Mahager Zone
B&C Industrial Zone, Obour City

has been registered by Intertek as conforming to the requirements
of:

ISO 9001:2015

The management system is applicable to:

Manufacturing & Assembling Data Network Racks & Consoles
according to market requirements

Certificate Number:
0100589

Initial Certification Date:
12 February 2014

Last Certificate Expiry Date:
11 February 2023

Date of Last Recertification Audit:
06 February 2023

Certification Cycle Start Date:
03 March 2023

Issuing Date:
03 February 2023

Valid Until:
11 February 2026



intertek



014

Calin Moldovean
President, Business Assurance

Intertek Certification Limited, 10A Victory Park,
Victory Road, Derby DE24 8ZF, United Kingdom
Intertek Certification Limited is a UKAS accredited
body under schedule of
accreditation no. 014.



CONTENTS

TABLE OF

01-09 Indoor Rack

02-05	Wall mount
02-03	Slim Rack
04-05	7U / 9U/ 12U/ 15U
06-09	Free standing
06-07	18U/ 27U/ 32U/ 37U/ 42U
08-09	27U/32U/ 37U/ 42U/ 47U

10-19 Outdoor Racks

11-19	IP55
11	Slim rack
12-13	6U/ 7U/ 9U/ 12U/ 15U/ 24U
14-15	MSAN
16-17	Twin rack
18	Outdoor protection measures
19	IP65
19	9U

20-25 Accessories

21	ODF
22	Cable organizers
23	Shelves
24	Fan units
25	Power distribution unit

26-27 Consoles

27	Technical specifications
27	Description
27	Workstation

28-31 Client list

29	Government sector
29	Universities sector
29	Petroleum sector
30	Sports sector
30	Telecom sector
30	Banking sector
31	System integrator sector
31	Other sectors

INDOOR RACKS

Indoor Racks

Wall-mount Slim Racks 2U/ 3U



Technical Specifications

- 1. Standard dimensions:
525x500x150mm
500x450x120mm
- 2. Vertical network equipment orientation
for space saving
- 3. Standard 19" mounting bars

Options

- 1. Rear galvanized mounting plate for non
19" equipment
- 2. Supplied with or without fan units
- 3. Wall mounted or embedded (flush mount)
- 4. Fan powered ventilation

Material	Ventilation	Stance	Paint	Protection
1-1.25mm Steel	2-fan unit	Flush mount	Electrostatic Oven Painting	Galvanization



Technical Specifications

1. Dimensions: H145 x W537 x D475mm.
2. Mounting Angles: Mounting Angles from 1.5mm galvanized steel.
3. Door: Front Glass window, Open with hinges and supplied with opening stopper.
4. Mounting Plate: 3U rotating + 5U Fixed side plates for Patch Panel.
5. Access Control: Lock with keys at front.



Material	Ventilation	Stance	Paint	Protection
1.25mm Steel	1-fan unit	Wall mount	Electrostatic Oven Painting	Galvanization

Indoor Racks

Wall-mount

600mm width



Technical Specifications

- 1. Lock and Key
- 2. Removable sides for accessibility

Options

- 1. Front door: Perforated Single Front Door with locks & Keys.
- 2. Front door:
 - 2.1. Designed for best ventilation of the rack.
 - 2.2. Double Perforated door with swing handle lock & Keys.
 - 2.3. Vented with punches to achieve 80% ventilation.
 - 2.4. Front door on 2-point hinges.

Material	Ventilation	Stance	Paint	Protection
1-1.25mm steel	1 side fan	Wall Mount	Electrostatic Oven Painting	Galvanization



12U - 600x800



15U - 600x1000



7U - 600x400

	600x400	600x600	600x800	600x1000	Ref.#	Serial #
7U	•				NPR07	6040
9U		•	•	•	NPR09	6060/ 6080/ 60100
12U		•	•		NPR12	6060/ 6080
15U		•		•	NPR15	6060/ 60100

Indoor Racks

Free-standing

600mm width



15U - 600x1000

Technical Specifications

- 1. Locks and Keys
- 2. Removable back and sides for accessibility
- 3. Security glass door and solid back door

Options

- 1. Front door: Perforated Single Front Door with lock & Keys.
- 2. Back door: Perforated Single Back Door with lock & Keys.
- 3. Front & Back doors:
 - 3.1. Designed for best ventilation of the rack.
 - 3.2. Vented with punches to achieve 80% ventilation.
 - 3.3. Both doors are on 2-point hinges.

Material	Ventilation	Stance	Paint	Protection
1-1.5mm steel	2 or 4-fan unit	Wheels or adjustable feet	Electrostatic Oven Painting	Galvanization

Indoor Racks



37U - 600x800



27U - 600x800



22U - 600x800

	600x600	600x800	600x1000	Ref.#	Serial#
18U		•		NPR18	6080
27U	•	•	•	NPR27	6060/ 6080/ 60100
32U		•		NPR32	6080
37U	•			NPR37	6060
42U		•	•	NPR42	6080/ 60100
44U	•			NPR44	6060

Indoor Racks

Free-standing

800mm width

Technical Specifications

- 1. Two vertical cable organizers
- 2. Locks and Keys
- 3. Removable back and sides for accessibility

Options

- 1. Front door: Perforated Single Front Door with lock & Keys.
- 2. Back door: Perforated Single Back Door with lock & Keys.
- 3. Front & Back doors:
 - 3.1. Designed for best ventilation of the rack.
 - 3.2. Double Perforated doors with lock swing handle & Keys.
 - 3.3. Vented with punches to achieve 80% ventilation.
 - 3.4. Both doors are on 2-point hinges.



42U - 800x1000

Material	Ventilation	Stance	Paint	Protection
1-1.5mm steel	4-fan unit	Wheels or adjustable feet	Electrostatic Oven Painting	Galvanization



42U - 800x800



37U - 800x1000

	800x800	800x1000	800x1100	800x1200	Ref.#	Serial#
32U	•				NPR32	8080
37U		•			NPR37	80100
42U	•	•		•	NPR42	8080/ 80100/ 80120
47U			•		NPR47	80110

OUTDOOR RACKS



Technical Specifications

1. Dust filters on all slots and rubber gaskets on door are added
2. Dimensions: H620 x W530 x D200mm (Customizable)
3. Ventilation: One side suction fan with filter & cover
4. Cable entry: through special cable glands with inner rubber gaskets to protect against dust or insect entry
5. Access Control: Lock with keys at front.

Option

1. Fans are controlled: by a pre-set thermostat to control the temperature degree at which fans operate and stop. This is essential to control enclosure temperature and for better fan's durability.

Material	Ventilation	Stance	Paint	Protection
1.2mm Steel	1-2 Suction Fans 1-2 Exhaust Fans	Wall/ Pole Mount	Electrostatic Oven Painting	Galvanization

Outdoor - IP55

Racks



12U - 600x600

Technical Specifications

- 1. Dust filters on all slots
- 2. Rubber sealing gaskets on doors
- 3. Ventilation: Two opposite fan units for suction and exhaustion to create a positive air circulation
- 4. Temperature control: Fans are electronically controlled by a pre-set thermostat
- 5. Cable entry: through special cable glands with inner rubber gasket to protect against dust or insect entry.
- 6. Tilted roof: to protect against rain accumulation.
- 7. Access Control: 3-Point lock with keys at the front.

Material	Ventilation	Stance	Paint	Protection
1.2mm Steel	1-2 Suction Fans 1-2 Exhaust Fans	Wall-Pole Mount / Free Standing	Electrostatic Oven Painting	Galvanization



9U - 600x600



24U - 600x600

	600x400	600x430	600x600	Ref.#	Serial #
6U		•		OPR06	6043
7U			•	OPR07	6060
9U	•		•	OPR09	6040/ 6060
12U			•	OPR12	6060
15U			•	OPR15	6060
24U			•	OPR24	6060

Outdoor - IP55

MSAN



Technical Specifications

- 1. Dimensions: W1900 x H2000 x D880mm
- 2. Outdoor isolating and protecting standards (dust and rain proof)
- 3. 19" & 21" Mounting columns made from 1.5mm stainless steel sheets.
- 4. Earth bars 25cm made from red electrical copper (99.9% purity)
- 5. Rubber steel-reinforced gaskets to tighten all doors' openings.
- 6. Insulation material PEF in between the double layers for heat insulation.
- 7. Isolated batteries compartments.
- 8. Back panel ventilation slots for releasing harmful gas generated by batteries.
- 9. Earth bars: Fixed in the bottom layer of the compartments.
- 10. Separate cable entrance openings for power, data and optical cables.
- 11. Ventilation by outdoor air conditioners or heat exchangers.

Material	Ventilation	Stance	Paint	Protection
1-1.5mm Steel	AC or Heat exchanger	Free standing on concrete base	Electrostatic Oven Painting	Galvanization



- 12. Enclosure is assembly installation design.
- 13. Insulation material Polyethylene foam.
- 14. Enclosure has 4 brackets to be fixed on concrete base.

Doors & Partitions Specifications

- 1. Enclosure includes two front doors for the two separated compartments with 110° opening angle controlled by door limiting devices.
- 2. One side door for the side MDF compartment.
- 3. One side window at the other side for consumption meter inspection.
- 4. The lock is theft proof three-point lock with door sensors.
- 5. Every component's section is completely isolated (equipment, battery & power supply) for safety and better heat isolation and temperature control.
- 6. Special windows in the intermediate walls for cables traffic.

Outdoor - IP55

Twin Rack



Technical Specifications

1. 19" Outdoor 28U Twin Rack Double Wall
2. Dimensions: 28U x W1000mm x D600 mm
3. Material: Doors & sides thickness is 2mm, Inner lining for doors & Sides are 1mm.
4. Free Standing standard on chassis.
5. Outdoor isolating protection standards (dust and rain proof)
6. Roof tilted: to protect against rain accumulation above the roof.
7. Front & Back Doors: Twin double doors with 3-point fixation.
8. Double layer wall: Can be equipped with inner rock wool or high-density 37 polyethylene foam lining upon request for extra temperature insulation.

Material	Ventilation	Stance	Paint	Protection
1-2mm Steel	AC or Heat exchanger	Free standing on concrete base	Electrostatic Oven Painting	Galvanization



- 9. Movable 19" Mounting Columns: Columns can be shifted forward & backward at 20mm steps to best-fit depths of all types of equipment.
- 10. Cable entry: Cable handling compartment with 20cm Height beneath the whole rack area. It has front & rear doors 13cm height under the rack base.
- 11. Cable Organizers: At sides of the 19" columns.
- 12. Optic Fiber Organizers: At front side of the 19" columns.
- 13. Access Control: Lock with keys on front & back, all locks are with window blots.
- 14. Prior galvanization is must to resist the weather conditions.
- 15. Painting: Electrostatic oven painting for outdoor applications.
Ral.7035 (light textured grey)
- 16. Galvanization: 19" mounting columns for scratch protection.

Outdoor - IP55

Outdoor Protective Measures

Temperature Control

1. Two opposing suction and exhaust fan units.
2. Outdoor grade filters and covers.
3. Fans are controlled by adjustable thermostat.



Rubber Sealant

1. Two Rubber sealing frame
2. All around the door frame



Ceiling Fan Units

1. Rubber sealing all around the ceiling frame
2. Inverted Ceiling design
3. Electronic thermostat control



Vertical Locking Mechanism

1. Espagnolette top and bottom locking system.
2. Two locking points to ensure sealing rubber compression.



Hanging Brackets

1. Two galvanised pole mounting brackets.





Technical Specifications

- 1. Dust filters on all slots
- 2. Rubber sealing gaskets on doors
- 3. Ventilation: Two opposite fan units for suction and 2 top fans for exhaustion to create a positive air circulation
- 4. Temperature control: Fans are electronically controlled by a pre-set thermostat
- 5. Cable entry: through special cable glands with inner rubber gasket to protect against dust or insect entry.
- 6. Tilted roof: to protect against rain accumulation.
- 7. Access Control: 3-Point lock with keys on the front.

Material	Ventilation	Stance	Paint	Protection
1.2mm Steel	1-2 Suction Fans 1-2 Exhaust Fans	Wall-Pole Mount / Free Standing	Electrostatic Oven Painting	Galvanization

ACCESORIES

Technical Specifications

1. High density and high-capacity frame dedicated to provide cable interconnections.
2. Covers fiber splicing, termination and connectors all together in one frame.
3. 4U/ 5U height. (Customisable)
4. ODF 144 connectors includes vertical multiple shelves to carry the splicing unit and connectors.
5. Cable organizer rings are vertically and horizontally fixed in front and rear areas of ODF for easy accessibility.
6. ODF front cover keeps the network components safe from misuse.
7. ODF is manufactured from steel sheets 1-1.5mm thick, and electrostatic painted



Accessories

Cable organizer

Technical Specifications

1. Vertical built-in cable organizer along the whole rack



Close-up shots



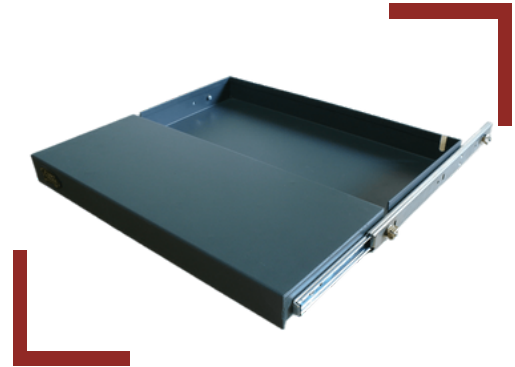
(Opened)



(Closed)

Technical Specifications

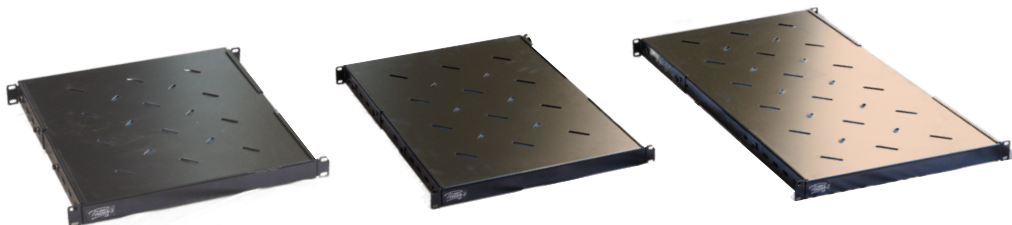
1. Keyboard Shelf for 19" racks
2. Dimensions:
 - 2.1. (PKB 19-6) for 600 x 600mm Racks.
 - 2.2. (PKB 19-8) for 600/800 x 800mm Racks.
 - 2.3. (PKB 19-10) for 800 x 1000mm Racks.
3. Load capacity is up to 30 Kg.



Sliding keyboard shelf
D 400 x 1U height

Technical Specifications

1. 19" Fixed server shelf with mounting kit. Best fit for loads up to 100 Kgs.
2. Dimensions:
 - 2.1. 500mm depth x 1U height for Racks D600mm (PFS-50)
 - 2.2. 650mm depth x 1U height for Racks D800mm (PFS-65)
 - 2.3. 850mm depth x 1U height for Racks D1000mm (PFS-85)



Server Shelf (PSS85)
D 850x H77mm

Accessories

Fan units



Four-fan unit that includes on/off front indicator switch

Technical Specifications

1. Height 1U
2. On/Off switch
3. Thermal sensors
4. Sensor to monitor the temperature of the rack and activates 1, 2, 3 or 4 fans according to the temperature recorded, an alarm (buzzer). When the temperature is safe again, it shuts off the fans.
5. Outdoor option



4 Fan unit with on/off switch
19" x 410mm depth x 1U



2 Fan unit with on/off switch
19" x 220mm depth x 1U



20 socket PDU + circuit breaker

Technical Specifications

1. Stand alone or 19" Rack mounted
2. Bticino / Lucci Modo sockets
3. White or black design
4. Electrostatic paint for indoor application
5. High voltage sockets, switches and wire.
6. Sockets with 10 amp. impedance and a max. of 16 amp.
7. Sockets with accidental opening protection.

Options

1. 4/ 6/ 8/ 20 sockets
2. On/Off switch
3. Circuit breakers



4 socket PDU
+ Power switch



8 socket PDU

CONSOLES

Technical Specifications

1. Steel or wooden frames for (LCD or CRT) screens, sizes 17" up to 50" on arrays.
2. From 1 to 3 screens are vertically stacked. First screen is 17° backward tilted. Second screen is vertically fixed and third (upper) screen is 17° forward tilted for best viewing angles.
3. Lower section 19" module for equipment racking.
4. Internal horizontal and vertical cable ducts for cable management.
5. Vertical ducts fixed behind each stacked screen line with 4 power sockets with a protection 10Amp circuit breaker.



Description

Console is a central station where user can receive many video signals from remote locations directly to main control room.

Consoles configurations are customized per project and includes:

1. Security surveillance
2. Monitoring and managing operations
3. Audio/video production and editing
4. Satellite monitoring stations
5. Stadium display system



Workstation

1. Work surface fixed at 72 cm height from ground for operators.
2. Tilted footrest for operator best convenience.
3. Open chassis consoles for big screens, 37-60" are supplied with special feet for stability.
4. Height may exceed 3 meters as per project.

CLIENTS REFERENCE LIST

Clients Reference List

Government Sector



وزارة الاتصالات
وتكنولوجيا المعلومات



University Sector



Petroleum Sector



Enppi



Petroleum Pipelines Co.



Clients Reference List

Sports Sector



Telecom Sector



Banking Sector



Clients Reference List

System Integrator Sector



Other Sectors





+2 2414 4910
+2 2291 1672



+2 0100 8959 977



www.horizonforindustry.com



horizon@horizonforindustry.com



80 Rabaa Investment Buildings,
Nozha St. Ard El-Golf, Cairo - Egypt



72 El-Mahager Industrial Zone B and C, Obour City

Totter's