



Advanced Co.

Portfolio
Telecom Solutions and Racks



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Telecom Solutions and Racks

Network Cabinets..01

Rack systems provide stability for sensitive electronics components. They also supply the hardware with cooling, power and connectivity precisely where this is needed

Outdoor Cabinets..11

The outdoor enclosures are designed to provide maximum protection against environmental factors, vandalism, EMC, and extreme weather conditions.

Smart Rack15

The intelligent rack solutions improve the management and maintenance of critical IT equipment, resulting in increased efficiency and uptime.

Micro Data Center..19

A range of complementary configuration components turns the safe into a fully fitted Micro Data Center.



Telecom Solutions and Racks

Fiber Connectivity...23

The fiber cabinets & hubs and optical distribution frames (ODF) come in a plethora of sizes, configurations, and capacities that enable customization based on individual needs and requirements

Mini-Shelter Solutions.. .. 27

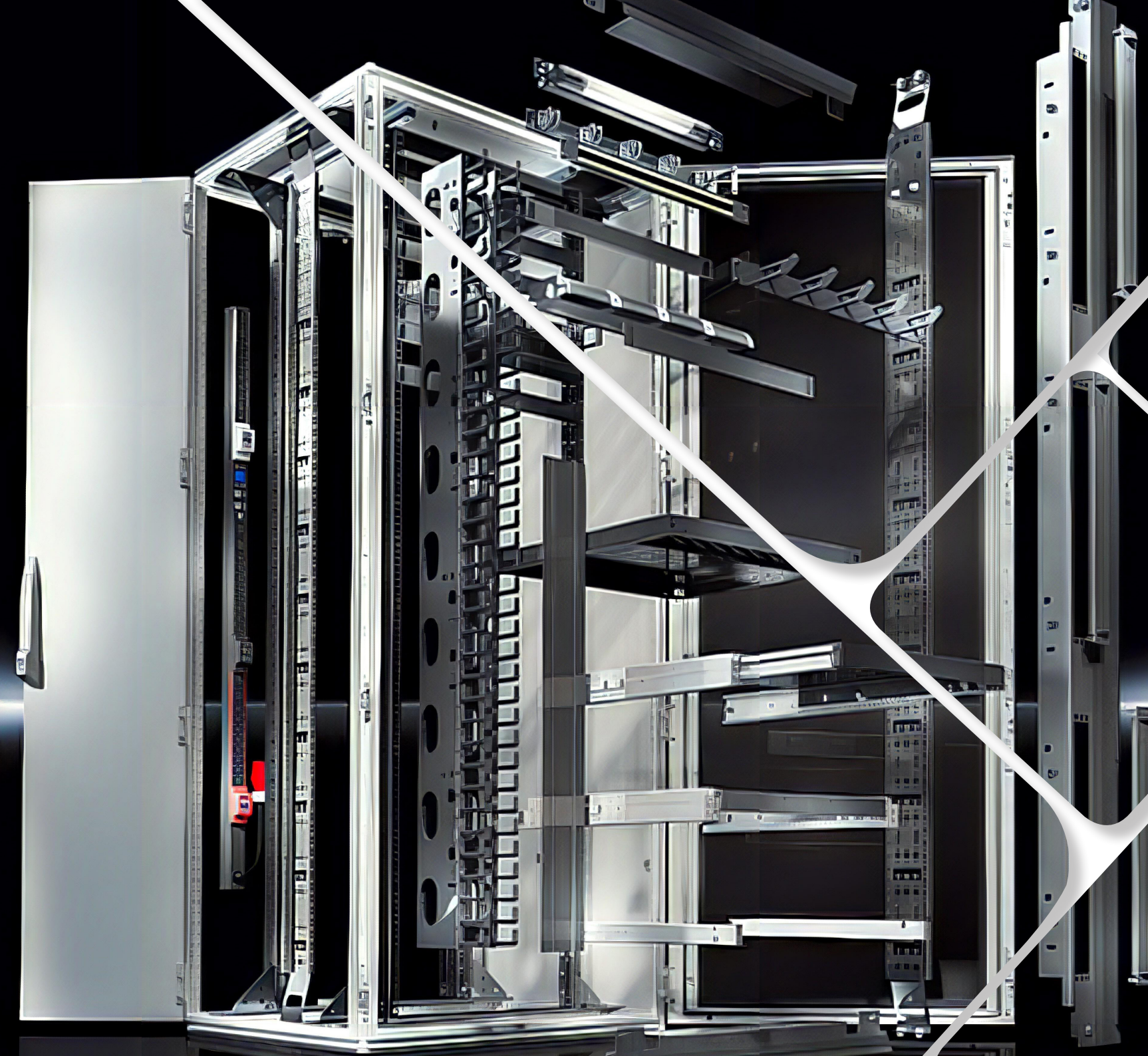
The Mini Shelter is designed to provide a secure and clean environment to back-up power, communications, IT, or industrial equipment in a harsh or outdoor situation

5G & Cell Solutions... 31

Our broad portfolio features aesthetically-pleasing cabinets for power and battery, battery backup, macro cell site, and Pico Cell site use

CCTV Cabinet Solutions..35

It is the structure that hosts the equipment which help keeping and tracking the simultaneously collected visual information as evidence and recording and operating about the automatic and surveillance resulted alarms



01 Network Cabinets

Network and server racks represent the backbone and basis of any IT installation – from single rack applications to a fully configured data center. Even though the main focus during operation is on active components such as servers, switches, storage systems and UPS solutions, **rack systems provide a stable environment for sensitive electronics components**

Network Cabinets

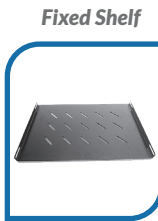
Wall Mounted



- Key Features:**
- Wide range of sizes: 4U to 21U, 19 inch and ETSI standard
 - Wide range of widths: 600mm, 800mm
 - Wide range of depths: 450mm, 600mm
 - Designed for maximum thermal and space efficiency
 - Range of cable management options
 - Wide range of accessories

Advanced Holding Group offers a variety of open and enclosed wall-mount cabinets for cables and equipment. Wall-mount systems create accessible locations for equipment where space is limited or does not exist. Store and secure equipment on the wall inside or outside the data center or equipment room and connect remote groups of users to the network.

 STANDARD ACCESSORIES



 OPTIONAL ACCESSORIES





Concept Cabinets

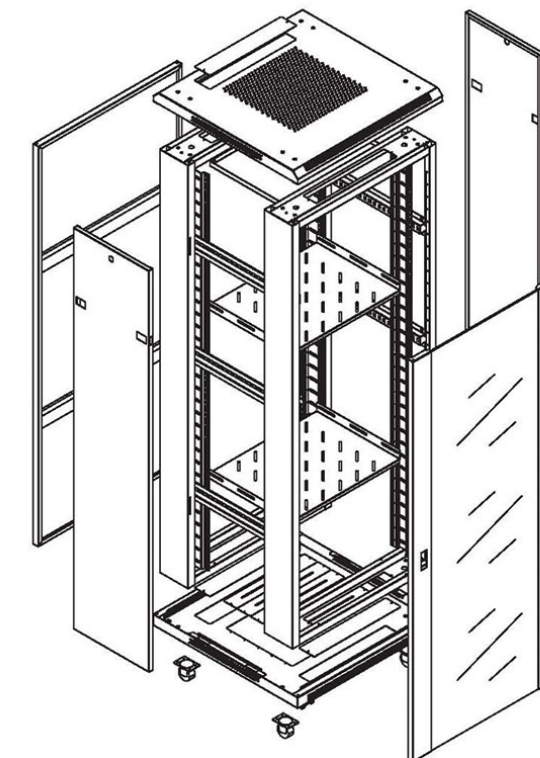
The range of 19" Floor Standing Data Cabinets are an ideal solution for housing network hardware and patching equipment. The robust design makes them suitable for use in IT departments and offices.

The cabinets are available in various configurations and are supplied fully assembled. Each cabinet utilizes a ventilated top and four 19" adjustable front and rear mounting posts. The cabinets feature hinged lift-off lockable sides and rear lockable doors for maximum access to the internal equipment, with cable access in the base for convenient routing of network cables. The cabinet frameworks are finished in goose grey or black with a toughened bronze tint perspex lockable front door.

Network Cabinets Free Standing

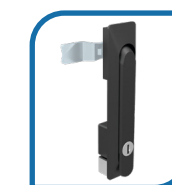
Key Features:

- Wide range of sizes: 21U to 48U, 19 inch and ETSI standard
- Wide range of widths: 600mm, 800mm
- Wide range of depths: 600mm, 800mm, 1000mm
- Designed for maximum thermal and space efficiency
- Range of cable management options
- Wide range of accessories



STANDARD ACCESSORIES

Swing Handle Lock



Cabinet Castors



Cabinet Jacking Feet



Cabinet Fan Units



PDU Universal Port



Fixed Shelf

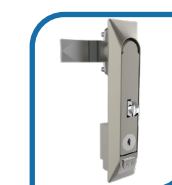


Switch LED light



OPTIONAL ACCESSORIES

Swing Chrome Lock



Sliding Shelf



Sensor LED light



Brush Plate



Management Bars



02 Outdoor Cabinets

Double-paneled, robust, and sturdy aluminium extruded framework; The outdoor enclosures are designed to provide maximum protection against environmental factors, vandalism, EMC, and extreme weather conditions

Bank Inter



Outdoor Cabinets



For outdoor installation, the Single and double-wall outdoor Cabinet protects equipment from the most adverse environmental conditions.

Characterized by high efficiency, quality, robustness, and security, is designed to allow circulation and airflow, providing a natural cooling with condensation control, prevent access to unqualified people, and protect its contents from the weather and vandalism.

In addition to the IP55 and IP65 base composition supplied in galvanized sheet steel, there are also available in aluminum and stainless steel compositions with different IP (Level of Protection)

STANDARD ACCESSORIES

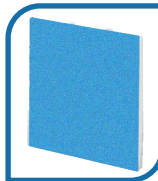
Swing Chrome Lock



Ventilation Shutter



G2 Filter



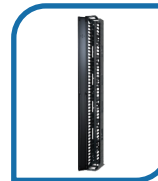
Cabinet Fan Units



PDU Universal Port



Vertical Cable Manager



Cable Gland



Sensor LED light



Key Features:

- 19 Inch according EIA 310 D / DIN 41 494 IEC 60297
- 21 Inch according ETS 300 119-3
- IP55 and IP65 according DIN 40050 / IEC60529
- Integrated air ventilation inlets ensure the entry of fresh air (protection against water and dust acc. to IP54)
- Special epoxy-polyester outdoor powder coating and primer powder coating layer
- Wide range of sizes: 4U to 48U, 19 inch and ETSI standard
- Wide range of widths: 600mm, 800mm
- Wide range of depths: 600mm, 800mm, 1000mm



02

Smart Rack

Designed to meet the needs of data center managers the Intelligent Server Rack Series combines the features and functionality of Advanced popular server rack with enhanced rack access control.

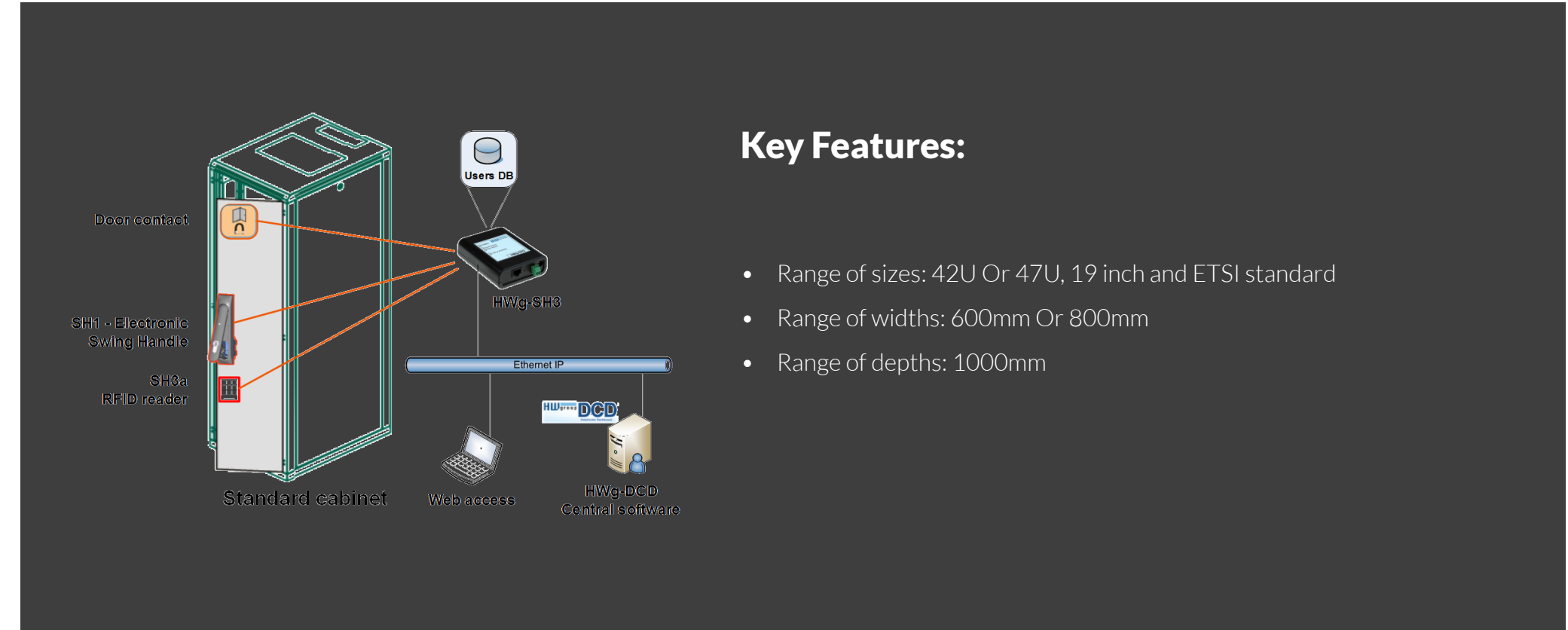
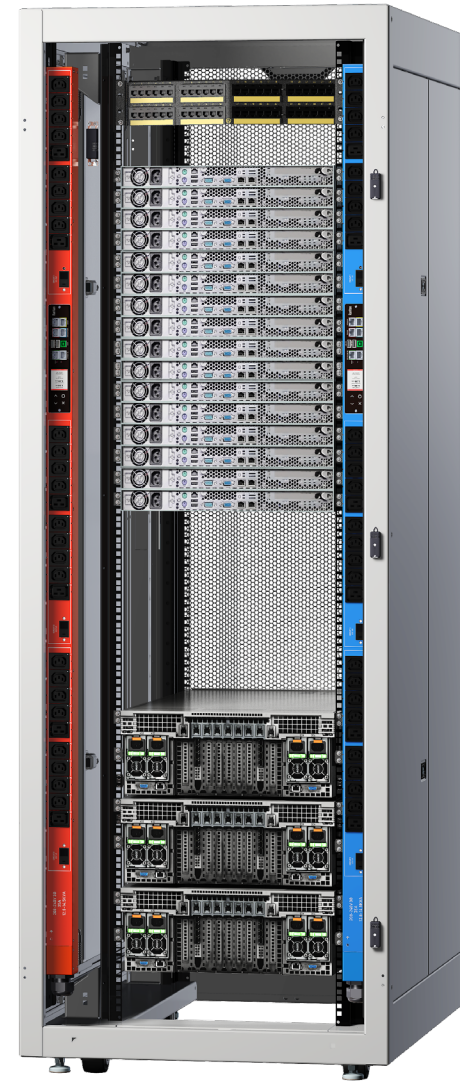
Is pre-configured with smartcard handles, LED light bar and temperature sensor making it the intelligent choice.



Smart Rack

Technological advancements in the age of big data and Internet of Things (IoT) have resulted in an increase of computing demands as well as a change in geographical distribution and location types where IT systems are deployed.

IT managers are looking for IT infrastructure that is reliable, flexible, secure and operationally economical. For instance, when they design their server racks, they consider products that deliver protection and secure access to critical IT systems. They should be able to accommodate growth and expansion while being cost-effective. Many IT managers find value in using a single manufacturer for integrated and complementary solutions. This approach results in improved availability, quicker deployments, increased staff efficiency, better security and reduced cost.



STANDARD ACCESSORIES

Smart Lock Access Control



Intelligent PDU's



Humidity Sensor



Temperature Sensor



LCD display





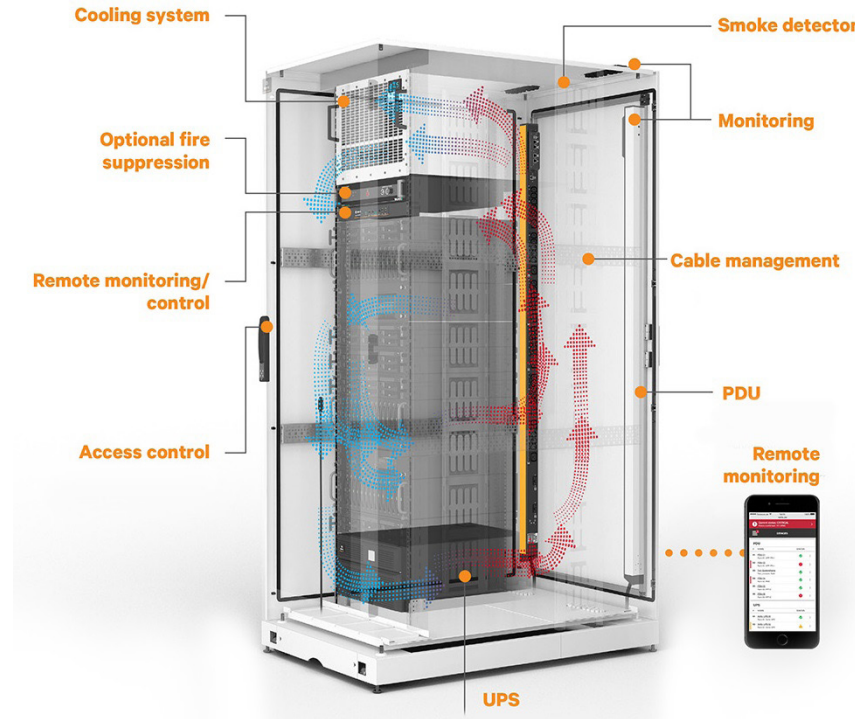
04

Micro Data Center

A micro data center is a small, self-contained data center architecture that is designed to support specific, targeted workloads or applications. It typically includes all the necessary components of a traditional data center, such as computing, storage, networking, and power and cooling, but in a much smaller form factor

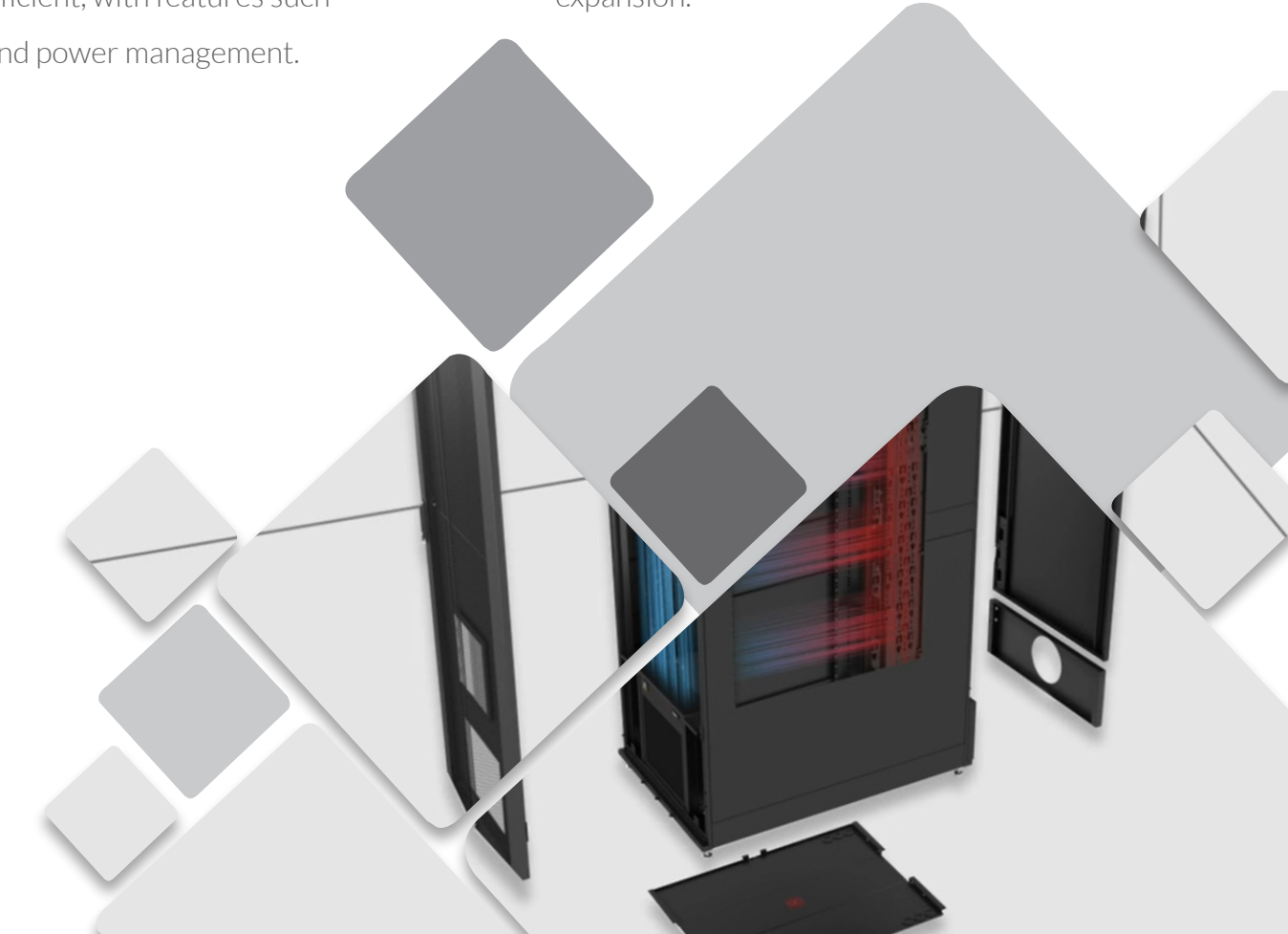
Micro Data Center

A micro data center is a small, self-contained data center architecture that is designed to support specific, targeted workloads or applications. It typically includes all the necessary components of a traditional data center, such as computing, storage, networking, and power and cooling, but in a much smaller form factor. Micro data centers are often used in edge computing scenarios, where low latency and high bandwidth are required for applications that cannot tolerate the latency and bandwidth limitations of centralized data centers.



Key Features:

- High-density, The integrated cabinet can support high-density equipment, making it ideal for data centers and other high-performance computing environments.
- Energy-efficient, The integrated cabinet is designed to be energy-efficient, with features such as intelligent cooling and power management.
- Space-saving, The integrated cabinet can save space by integrating multiple functions into a single unit.
- Modular design, The modular design of the integrated cabinet allows for easy customization and expansion.



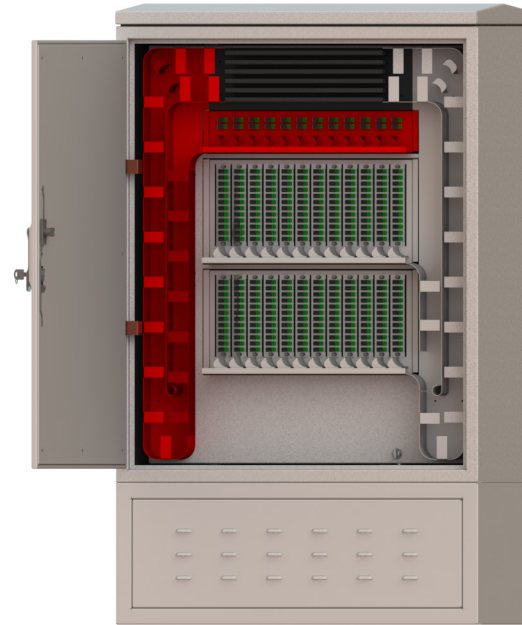
05 Fiber Connectivity

As gigabit FTTH (fiber to the home) and G.fast networks expand, more cables and connections, and the frames to hold them, are required. Optical distribution frames (ODF) and fiber distribution hubs (FDH) are designed to fit a variety of fiber and copper cabling applications

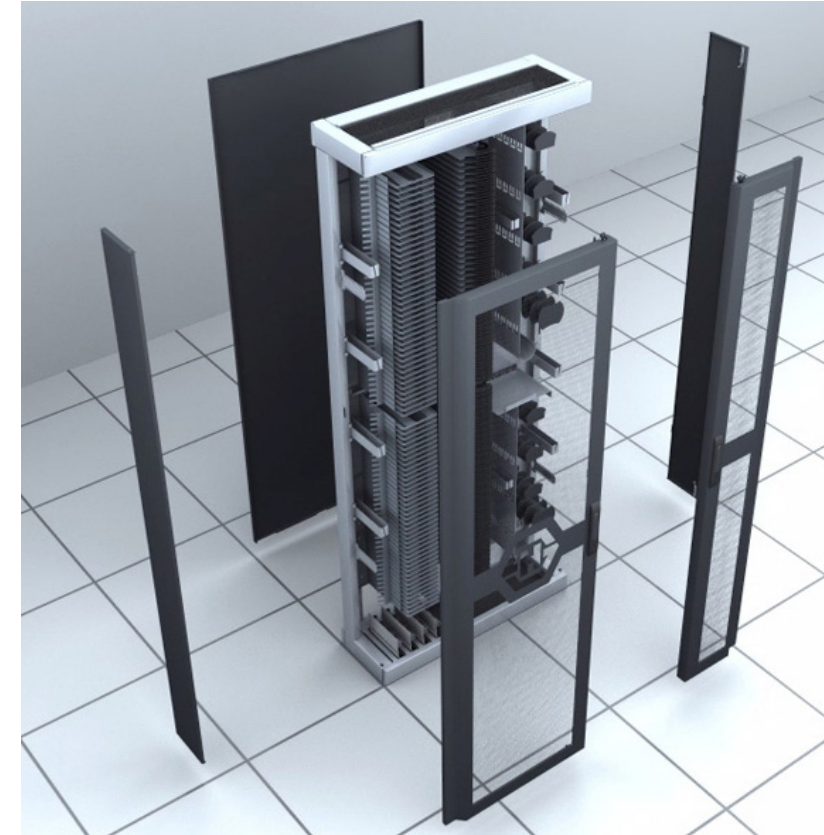


Fiber Connectivity

The outdoor Fiber Distribution Hub (FDH) cabinet is designed to handle fiber optic terminations and passive optical splitters in PON FTTx networks with many sizes from 288 to 1152 fibers, but can also be used for Point to Point (P2P) applications or combinations of both. The FDH is used as a demarcation point between the feeder network and the distribution network and provides quick and easy incremental installation of distribution cable terminations and fiber optic splitters. This cabinet can handle both air-blown fiber in micro ducts, micro cables as well as drop cables, and other fiber optic cables. The FDH is intended for above-ground installations but can also be mounted indoors, floor standing e.g. for use in a basement of a Multi-Dwelling Unit. A mounting pad for outdoor installations and brackets for wall mounting are included



The cabinet is equipped with heavy-duty lockable front doors with hexagonal key locks. The feeder cable and distribution cable management and routing are also provided with self-protecting rubber to retain the cabinet IP55 rating according to IEC 60529 standards after the installation as well.



- Manageable Fiber Density, Innovative frame design delivers the highest possible fiber density while the logical management system keeps all fibers identifiable and accessible for more rapid installations, turn-ups, and maintenance.
- Long-Term Agility, Be prepared for future changes while getting more value from your current fiber network. Modular design means long-term agility.
- Lower Total Cost of Ownership, The net effect of modular agility and better cable management—lower total cost of ownership. Defer CapEx by maximizing fiber density and port utilization

InDoor Optical distribution frame (ODF)



04 Mini-Shelter Solutions

Mini-shelter was developed for easing operators' pressure in site acquisition, meeting operators' requirements for energy saving, and flexible expansion. As an innovative installation solution for site equipment, it not only has a large housing capability like a traditional shelter but also adopts an independent compartment temperature control method as an outdoor cabinet

Mini-Shelter Cabinets

Mini-shelter was developed for easing operators' pressure in site acquisition, meeting operators' requirements for energy saving, and flexible expansion. As an innovative installation solution for site equipment, it not only has a large housing capability like a traditional shelter but also adopts an independent compartment temperature control method as an outdoor cabinet. Because Mini-shelter has few limitations on application scenarios and can satisfy operators' different requirements, it is gaining more and more popularity in the modern sites

All in One

- Large housing capability, minimizing the number of outdoor cabinets
- All-in-one. "Main equipment, temperature control equipment, power system, battery, ACDC, DCDU ..."
- Simplifying the site design, making the site orderly

Benefits

Footprint and energy saving

- Mini-size, decreasing 60% footprint, easing site acquisition pressure and decreasing deployment cost
- In non-high-temperature areas*, using independent temperature control method without A/C, reducing 50~80% •cooling power consumption
- In high-temperature areas*, adopting an intelligent heat exchanger system, decreasing A/C running time, saving •energy 40~60%
- Independent cooling for battery, prolonging its lifespan 2~5 years

Modular configuration, flexible expansion

- Modular configuration. Providing series combinations by three basic function units, "equipment cabinet, auxiliary cabinet, and storage battery cabinet"
- The easy configuration according to customer needs
- According to different working temperature demands of different equipment, every cabinet has an individual cooling method
- Flexible expansion, and easily solves the management problems of co-site

Key Features

- The range of structure: Single layer, Double layer insulation structure
- The range of material: Galvanized sheet, Stainless Steel, Aluminum
- The range of thickness: 19"rails 2.0mm, outer panel adopt 1.5mm, internal panel adopt 1.0mm. Other option according to customer
- The cooling method: AC Fans, DC Fans, AC Air conditioner, DC Air conditioner, AC Heat-exchange, DC Heat-exchange.
- The heating method: Heater, Heat-exchange, Air conditioner
- IP55, IP65 and IP66 according to DIN40050 / IEC60529
- The range of Color: RAL7035, RAL1013, etc
- Wide range of sensors optional accessories: Door alarm, Temperature Sensor, Humidity Sensor, Water Sensor, Smoke alarm, etc
- Wide range of cooling optional device: Fan, Air condition, Heat exchange.
- Others optional accessories: Shelves, Monitor, PDU, Power supply, Lightning protection, Breakers, Power distribution box, DDF, ODF, Battery, etc
- Special epoxy-polyester outdoor powder coating
- Wide range of Dimension

07 5G & Cell Solutions

field-proven and environmentally-rugged outdoor enclosures deploy quickly and offer reduced OpEx and a small footprint. Our broad portfolio features aesthetically-pleasing cabinets for power and battery, battery backup, macro cell site, and Pico Cell site use. Advanced outdoor enclosures help accelerate your ROI while ensuring performance you can trust.





IP field cabinets are made of Dx51d+ZN275 galvanized material. The protection level provided with the sealing in accordance with EN 61587-1/6.4 IEC 60529, the cabinets provide protection against contact, foreign objects, and water. In compliance with EN 60529 standard, the cabinets prevent water and dust penetration at IP66 protection level. Fan and filter applications turn the protection level into IP54. The cabinets have a polyurethane full casted seal. Three-point locking anti-vandalism WK2 locks provide IP66 protection level. The cabinets have the highest corrosion resistance with RAL 7035 Light Grey polyester electrostatic powder coating applied on monoblock welded structure. The powder coating is fireproof and fire-resistant.

Benefits

- Designed and tested for superior environmental protection and thermal management
- Long equipment and battery life, plus large battery reserve
- Minimal acoustic signature and power consumption
- Extreme corrosion resistant
- In-house set up and field support as required for FOA and field trials
- Deployed worldwide including coastal environments, extreme cold, and desert conditions

5G & Cell Solutions

Key Features

Filter System

All the models of cabinets have the ventilation filters on both left and right sides. Thus the clean air is taken inside the cabinets and the dirty air, moisture and temperature is discharged. IP field cabinets have changeable and cleanable dust filters.

Switch

The aim of the door switches is to alarm or to turn on the lighting when the door is opened and turn it off when the door is closed. Optionally more switches can be used if desired.

Bottom Cover

On the cable entry point located at the bottom of the cabinet, a closing panel with glands and brushes can be installed. Besides, the bottom of the cabinet is fully openable.

Casted Seal

On the front doors of the IP field cabinets, a polyurethane casting seal enables full sealing

Lock System

Three-point locking anti-vandalism WK2 standard Zamak alloy metal body handle lock provides full security

Ventilation System

Two different circulatory ventilation systems are available. Upper and lower sections work independently with 2 fans or 4 fans and thermostat-controlled fan modules. One of the 2 fans located on the bottom left of the cabinet sucks the air while the other works for the discharge of the air. Thus one of the fans sucks the clean air from the filtered clean air sucking vent located on the lower section. The other discharges the dirty air and temperature outside. Both fans of the 2 fans unit located on top of the upper section discharge towards outside. The cabinet sucks the air from the protected clean air vent on the right side and discharges it from the ventilation slots on the roof. LED lightings are designed to be integrated on the IP fan modules.

Heating System

The heater units are delivered as the winter thermostat connection is integrated. Yet, for the applications in which the condensation risk is high for the MOBESE field cabinets, it is suggested to use hygostat activated heaters. In order to minimize the condensation risk, control the temperature, and activate the fan system, you can choose hygostat and thermostat combined equipment.

Air Conditioner System

Field Cabinet Air Conditioner can be installed on both pole and ground type cabinets with 220V operation and its weight of 18 kg. It's designed with such weight that doesn't restrain the use. Depending on the cabinet dimensions, 3 models as 450W, 1000W, and 2000W can be chosen



08 CCTV Cabinet Solutions

CCTV Cabinet Solutions It is the structure that hosts the equipment that helps keep and track the simultaneously collected visual information as evidence and recording and operating the automatic and surveillance alarms

CCTV Cabinet Solutions



CCTV Cabinet Solutions It is the structure that hosts the equipment that helps keep and track the simultaneously collected visual information as evidence and recording and operating the automatic and surveillance alarms.

Electrical Distribution Unit

Electrical Distribution unit is a product specially designed for switch equipment and which allows easy installation with the hinged structure. Electrical Distribution unit is fully removable and thus the electrical connections can be done outside and integrated in the cabinet later.

Key Features:

- Hanging cabinet type for outdoor, suitable for CCTV system.
- Produced from Electro-Galvanized sheet steel.
- Color for cabinet outdoor type made from Epoxy polyester coating.
- Water-proof and ventilation by roofer at side panels.
- Complete dust proof by Zinc Phosphate coating.
- Side panels&roof over are water-proof by rubber seal.
- At roof cover can be install one 4" ventilationfan
- Provide removable component plate. Plate can remove out from the cabinet for convenient to install the equipment.

