SOLUTIONS & SERVICES CATALOG

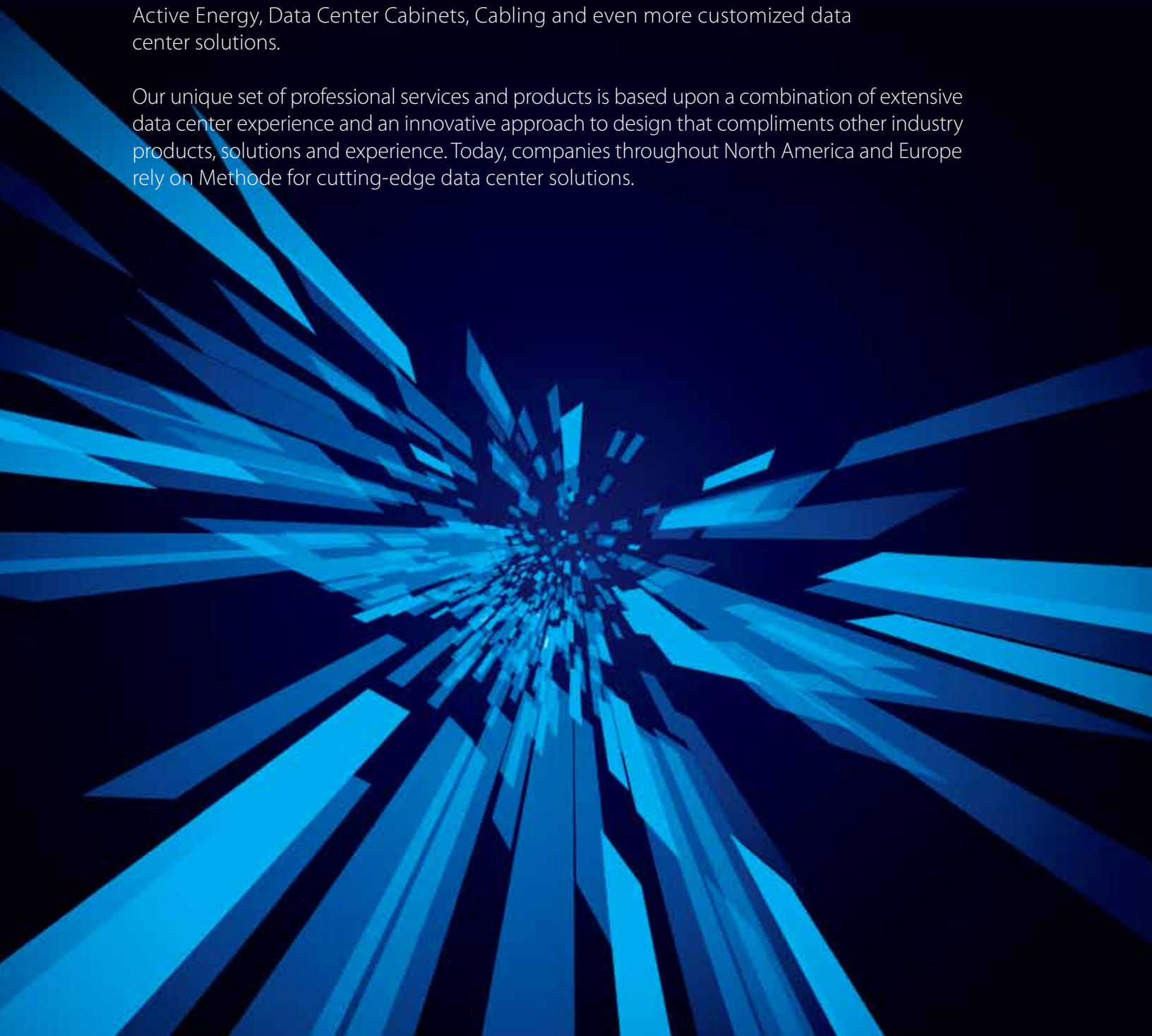
METHODE®

DCIM | ACTIVE ENERGY | PROFESSIONAL SERVICES | DATA CENTER CABINETS
NETWORK PLUGGABLE COMPONENTS | CABLE MANAGEMENT

About Methode

At Methode, we have become known as the leading innovator of high quality services, solutions and connectivity for the data center. While we started in the automotive, appliance and power industries, today our infrastructure management solutions are setting the standard for DCIM, Active Energy, Data Center Cabinets, Cabling and even more customized data center solutions.

Our unique set of professional services and products is based upon a combination of extensive data center experience and an innovative approach to design that compliments other industry products, solutions and experience. Today, companies throughout North America and Europe rely on Methode for cutting-edge data center solutions.



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Connectivity Products

Methode designs, manufactures, delivers and installs innovative, high performance, high quality fiber and copper connectivity solutions. A Methode solution can help customers build an efficient, scalable and upgradeable infrastructure that is cost effective and meets their connectivity requirements, now and in the future.

By working with customers, partners and equipment manufacturers, Methode develops connectivity and cabling solutions that help solve challenges like increasing port density and data rates without sacrificing user friendliness or installation efficiency. With factory pre-terminated solutions, utilizing the best components in the industry, a Methode solution will perform when installed and will continue to perform flawlessly, with full warranty backing.

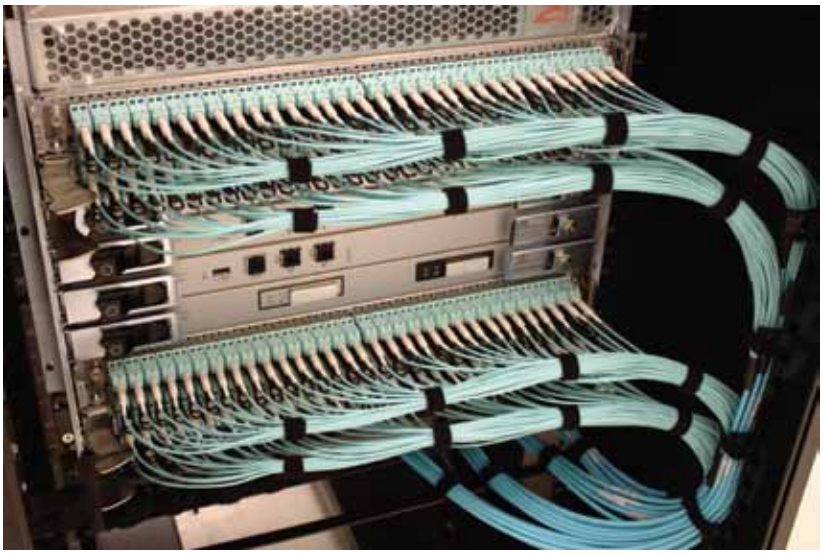
Methode connectivity solutions are built "on demand" based on a customer's needs. The lead time and delivery record of our "on demand" custom solutions are typically the best in the industry. Methode connectivity solutions consistently surpass industry performance requirements.

As you review the connectivity pages in this catalog feel free to request what you need. We can build it and deliver it, when you need it.

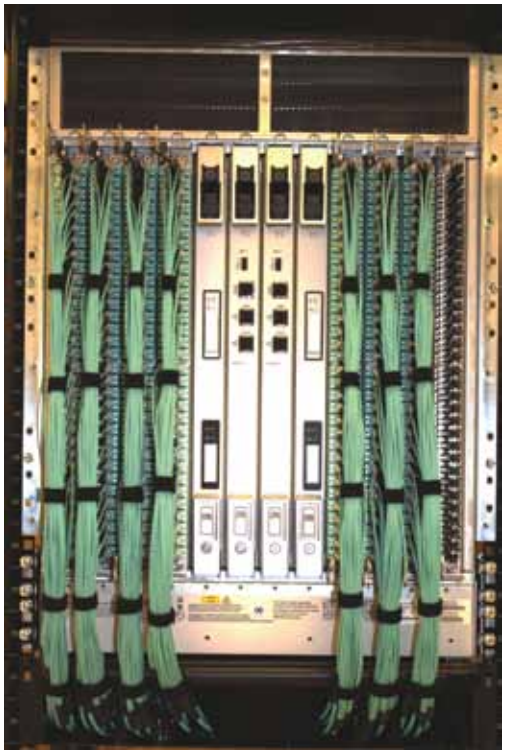
The Quantum™ Cabling Solution is designed to provide optimal connectivity to any enterprise class director, or Ethernet network switch, while providing a highly efficient and reliable cabling infrastructure that is easily scaled and upgraded.

This solution has a minimal number of part numbers and allows for easy access and trouble shooting. Because of the highly organized, yet simple configuration of this solution, the end result is an aesthetically pleasing, but highly functional and efficient cabling solution, with minimal excess cable slack. This solution is adaptable to any vertical or horizontal mounted SFP blade system and can be mounted in any 19" rack.

Quantum™ Cabling Solution



Brocade DCX-4S



Brocade DCX

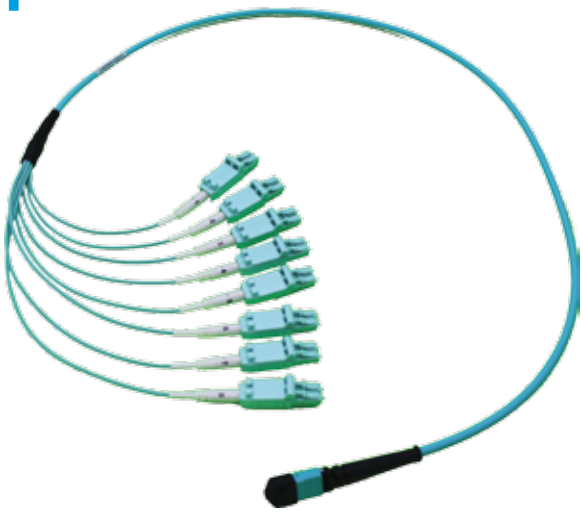
Note: The Quantum™ Cabling Solution has options for most Brocade, CISCO or Juniper fiber channel or Ethernet switches. Please call Methode for solutions to your specific directors.

US Patent number 8,391,663.

Quantum™ Cabling Solution

MTP Trunk

MTP Coupler Plate



8 Channel Harness

Front

Back

Conversion Patch Panel
(2 RU Patch Panel supports up to 512 ports)

Quantum™ Conversion Patch Panel Kit

(Note: All Conversion Patch Panel Kits include the panel, blanking strips, mounting rails, installation hardware, and front and rear cable management.)

Part #	Description
QS-CPK	Quantum Conversion Patch panel kit

MTP male-LC PRO-SLIDE or mSFP-LC PRO-SLIDE Harness Assembly Kits

(Note: All kits include all harnesses needed to fully populate the designated blade along with an 8 position MTP coupler plate for the Quantum Conversion Panel.)

Part #	Description
QCB-120111	OM3 Quantum Cabling kit for Brocade's DCX backbone 32 port blade
QCB-120121	OM3 Quantum Cabling kit for Brocade's DCX backbone 48 port blade
QCB-120132	OM3 Quantum Cabling kit for Brocade's DCX backbone 64 port blade
QCB-221211	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 1 and 2-Top)
QCB-220311	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 7 and 8-Bottom)
QCB-220221	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 1 and 2-Top)
QCB-220321	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 7 and 8-Bottom)
QCB-220232	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 1 and 2-Top)
QCB-220332	OM3 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 7 and 8-Bottom)
QCB-130111	OM4 Quantum Cabling kit for Brocade's DCX backbone 32 port blade
QCB-130121	OM4 Quantum Cabling kit for Brocade's DCX backbone 48 port blade
QCB-130132	OM4 Quantum Cabling kit for Brocade's DCX backbone 64 port blade
QCB-231211	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 1 and 2-Top)
QCB-230311	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 7 and 8-Bottom)
QCB-230221	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 1 and 2-Top)
QCB-230321	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 7 and 8-Bottom)
QCB-230232	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 1 and 2-Top)
QCB-230332	OM4 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 7 and 8-Bottom)
QCB-110111	OS2 Quantum Cabling kit for Brocade's DCX backbone 32 port blade
QCB-110121	OS2 Quantum Cabling kit for Brocade's DCX backbone 48 port blade
QCB-110132	OS2 Quantum Cabling kit for Brocade's DCX backbone 64 port blade
QCB-211211	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 1 and 2-Top)
QCB-210311	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 32 port blade(slots 7 and 8-Bottom)
QCB-210221	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 1 and 2-Top)
QCB-210321	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 48 port blade(slots 7 and 8-Bottom)
QCB-210232	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 1 and 2-Top)
QCB-210332	OS2 Quantum Cabling kit for Brocade's DCX 4S backbone 64 port blade(slots 7 and 8-Bottom)

The Quantum™ Cabling Solution is also available for the Brocade VDX-8770-4 and VDX-8770-8, CISCO 7010, 7018, and 9513. Information is available upon request.

Our complete end-to-end cabling infrastructure solution provides rapid deployment of custom high density, performance with extreme flexibility. Pre-terminated fiber optic connectivity is more reliable than traditional discrete connector or field terminated methodologies. The system is designed to be scalable in nature to allow the end user to work within budget constraints to add connectivity as needed. A Fast Channel solution allows for easy installation, rapid deployment and the least possible disruption of day-to-day operations, with guaranteed performance of ≤ .35dB IL per cassette port.

FAST CHANNEL: Fiber Optic Connectivity Solutions

Features:

- Highest possible density utilizing 6, 12, 16 & 24 channel cassettes
- Plug-n-play feature
- Superior performance (≤ .35dB IL per cassette port)
- Serialized, tested and certified with test results documented and retained by Methode
- Panel to panel are MTP/MTP trunks

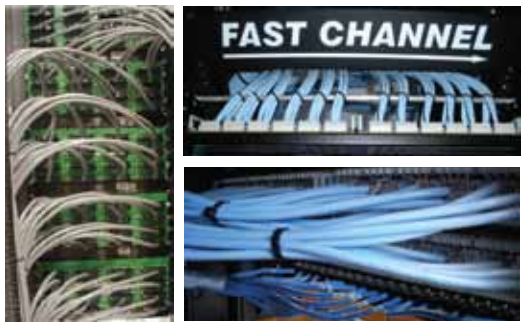
Specifications:

- Cassette measures: 5.25" x 1.14" x 5.25" (6 & 12 channel LC)
- Cassette measures: 6" x 1.14" x 5" (16 channel-mSFP-LC)
- Cassette measures: 9" x 1.14" x 6" (16 & 24 channel-LC)
- Patch panels come in 1, 2, 4 and 6RU configurations which are 8" deep
- 1RU – up to 3 cassettes (6 & 12 channel-LC cassettes)
- 2RU – up to 6 cassettes (6 & 12 channel-LC cassettes)
- 4RU – up to 12 cassettes (6 & 12 channel-LC & 16 channel mSFP-LC cassettes)
- 6RU - up to 12 (16 or 24 channel cassettes)

Our complete end-to-end copper cabling infrastructure solution, that provides rapid deployment of custom high density performance with extreme flexibility. The use of copper connectivity will provide end users the ability to turn up systems in a much shorter time frame. Pre-terminated copper connectivity is more reliable than traditional discrete connector or field terminated methodologies. The system is designed to be scalable in nature to allow the end user to work within budget constraints to add connectivity as needed. A Fast Channel Copper Connectivity Solution allows for easy installation and will also provide the least possible disruption of day-to-day operations.

RJ 21 Cat 5e Panel (24 port)

RJ 21 Cat 5e Panel (48 port)



Cat 5e

FAST CHANNEL: Copper Connectivity Solutions

Category 5e:

- 24 and 48 port modular patch panels
- Panel-to-panel connectivity using 24 pair Cat5e trunk utilizing RJ-21 style connectors (custom lengths available)

Specifications:

- Meet or exceed TIA/EIA-568-C standards
- Patch panels available in 24 or 48 ports
- Custom silk-screen available

Category 6 and 6A:

- 24 and 48 port Keystone Jack style panels
- Panel to panel connectivity using 24 pair Cat6 and Cat6A trunk utilizing Keystone style connectors (custom lengths available)

Specifications:

- Meet or exceed TIA/EIA-568-C standards
- Patch panels available in 12, 24 or 48 ports
- Custom silk-screen available

For more information on accessories for this product, please contact your Methode representative.

Methode's Fiber Optic Jumpers provide an easy and efficient way to connect single channels of communication ports between data processing equipment. Featuring a variety of core sizes and performance capabilities including, single-mode (8.3/125µ) and multi-mode (50/125µ & 62.5/125µ) OM2, OM3 & OM4. All jumpers are manufactured in a variety of cable constructions and sizes to include, Duplex Zip, DFX (Dual Fiber Exchange), 2mm, 3mm & 4mm OD. Jacket ratings are available with plenum, riser, Low Smoke Zero Halogen (LSZH) or dual rated jackets. Jumpers can be manufactured with any standard or small form factor connectors (LC, mSFP-LC, MT-RJ, MU, SC, and ST). Connector styles range from standard duplex to single-body connectors, or the newly designed and patented LC Pro-Slide™ and mSFP-LC Pro-Slide™. The Pro-Slide™ was designed by Methode in an effort to decrease risk while performing moves and changes in a high density environment. This decrease in risk is accomplished by the "push-pull" latching mechanism, which allows effortless disconnect and a secure connection when engaged.

mSFP-LC/mSFP-LC Pro-Slide™ OM3 Jumper

LC/LC Single Body Jumper; Single Mode 8.3/125

MTRJ/MTRJ 62.5 Jumper

MU/MU 50/125 OM2 Jumper

MU/SC Jumper

Fiber Optic Jumpers

Optimal Performance

- Extremely low light loss performance through the use of close tolerance components

Full Industry Compliance

- All multi mode and single mode jumpers are TIA-568-C & Telcordia GR-326-CORE compliant

Cabling Options

- Zip
- DFX (Dual Fiber Exchange)
- Plenum (OFNP)
- Riser (OFNR)
- Low Smoke zero Halogen (LSZH)

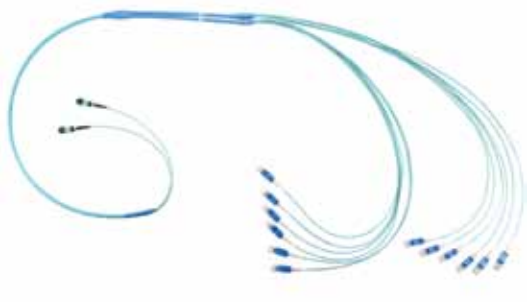
All Methode fiber jumpers are bend insensitive fiber

Specifications:

- All Methode assemblies are tested 100% during the manufacturing process for attenuation (dB loss), continuity, channel polarity and reflectance, (Return Loss) as required. When installed at the customer site, by Methode personnel, all jumpers and trunks are tested and documented again at the completion of the installation.
- The test results during manufacturing and installation are documented and retained by Methode.

Methode's Fiber Optic Trunks provide for an economical way to install large numbers of fibers in the smallest footprint available. We offer single-mode and multi-mode trunks in Ribbon Array, DFX, Tight- Buffer and Loose Tube construction. Jacket ratings are available with plenum, riser, Low Smoke Zero Halogen (LSZH) or dual rated jackets. Trunks are available with standard duplex or single-body connectors, or the new LC Pro-Slide™ and mSFP-LC Pro-Slide™ offered from Methode. Trunks are constructed with Loose Tube cable, which results in a 30% reduction in overall cable density. Ribbon Array system components include external harnesses, pre-cabled patch panels, coupling blocks, and the MTP connectors. Multi-mode Gigabit (OM2) and 10 Gigabit (OM3 & OM4) 50 micron trunks are available, with products tailored for the SAN & Network environments.

LC/LC, 12 Channel Trunk



MTP/LC, 12 Channel Trunk

Fiber Optic Trunks

Optimal Performance

- Extremely low light loss performance through the use of close tolerance components
- All multi mode and single mode jumpers are TIA-568-C & Telcordia GR-326-CORE compliant

Cabling Options

- Single mode and multi mode
- Zip
- DFX (Dual Fiber Exchange)
- Plenum (OFNP)
- Riser (OFNR)
- Low Smoke Zero Halogen (LSZH)

All Methode fiber solutions are bend insensitive fiber

Specifications:

- All Methode assemblies are tested 100% during the manufacturing process for attenuation (dB loss), continuity, channel polarity and reflectance, (Return Loss) as required. When installed at the customer site, by Methode personnel, all jumpers and trunks are tested and documented again at the completion of the installation.
- The test results during manufacturing and installation are documented and retained by Methode.

Methode Fiber Optic Harnesses are available in a variety of configurations to meet customer specific requirements. Harnesses may be MTP connector to any discrete style fiber connector, with break-out counts and lengths based on the application. Methode has worked closely with hardware equipment manufacturers to develop harnesses that provide a method of rapidly connecting hardware to the fiber backbone. Harnesses provide the flexibility to change out the hardware without having to change out the backbone during refresh projects, and create a user friendly solution that is easily maintained. The Methode technical team will work closely with the customer to develop harnesses specific to the hardware requirements. Available in OM2, OM3, OM4 and singlemode, riser, plenum and LSZH.

LC Pro-Slide™
8 Channel Harness

mSFP-LC Pro-Slide™ /MTP
8 Channel Harness

Fiber Optic Harnesses

High Performance Connectivity

- Meets or exceeds GR-326 Specifications
- Meets or exceeds TIA 568-B Specifications
- .25 dB maximum Insertion Loss Multimode
- .15 dB maximum Insertion Loss Singlemode
- UPC and APC polish options

High Perfomance Cable

- Bend Insensitive Fiber
- Riser, Plenum, LSZH

Custom Designed Solutions

- Multiple fiber counts
- Any to Any connector configurations
- Custom lengths
- Custom fan outs
- Discrete connector stagger

High Availability

- Built on demand, 7 to 10 days typical

Methode builds all of its fiber optic assemblies made to order. You can select from industry standard connectors or Methode patented technology. A complete list of connector options can be found below:

LC Pro-Slide™

mSFP-LC Pro-Slide™

LC Singlebody

LC Duplex

MU

MTP

SC

Fiber Optic Connector Choices

Standard Connectors

- LC
- MU
- SC
- MTP/MPO
- ST
- FC

Methode Patented Connectors

- LC Pro-Slide™
- mSFP-LP Pro-Slide™

*Methode Pro-Slide™ – Methode's patented connector is designed to reduce connector breakage when performing moves, adds and changes by offering a simple push/pull action to remove the connector.

*mSFP-LC Pro-Slide™ – This highly compact connector allows for assembling the highest density panels on the market today.

Methode Copper Patch Cords are available in a variety of categories and configurations to meet every requirement. From Category 5e to Category 6A, Methode UTP Copper Patch Cords are guaranteed to meet or exceed all TIA/EIA performance requirements for the intended application. Engineered to meet the most demanding applications, Methode Copper Patch Cords are manufactured with high performance cable and connectors to ensure consistent performance throughout the life of the installed infrastructure.

Copper Patch Cords

High Performance Connectivity

- Meets or exceeds component requirements for all applications High Performance Cable
- Category 5e UTP
- Category 6 UTP
- Category 6A Shielded

High Availability

- Build on Demand Custom Lengths –ship 3 to 5 business days ARO
- Standard lengths in stock

Options

- Snagless boots
- No boots
- 14 colors available
- Plenum or PVC (ROHS Compliant)

Methode has a long history of designing and manufacturing custom copper trunk solutions to meet virtually every customer application. Solutions are available from Category 5e UTP to Category 6A Shielded. Connector and design options are available in standard configurations as well as custom, one-of-a-kind solutions. All finished assemblies are 100 % tested and guaranteed to meet stated performance characteristics. Extended warranties are available when installed by Methode certified installation teams.

Bundled Copper Trunks

Bundled Copper Trunks w/Keystone Jacks

Copper Trunks

Connector Styles

- Cat 5e-RJ21X-25 pair connectors in 90 degree, 120 degree and 180 degree options
- Category 6 UTP Keystone/Multiple Colors
- Category 6A Shielded, Keystone/Multiple Colors

Cable Options

- Category 5e, 25 pair
- Category 5e, 4 pair UTP
- Category 6, 4 pair UTP
- Category 6A, 4 pair Shielded & UTP

Design Options

- 6, 12 or custom, 4 pair cables bundled with mesh over-sleeve.
- Connector and breakouts custom per customer requirements

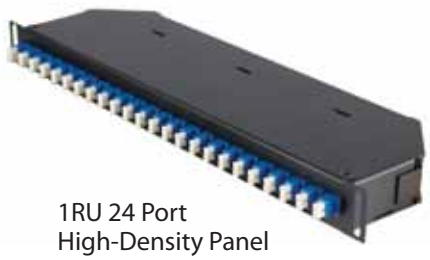
Warranty

- Standard 15 year warranty
- Extended performance warranty available

Methode's 1RU High Density Patch Panels are available in port counts ranging from 12 to 48 and various coupler types and form factors such as LC, mSFP-LC, and MU, to name a few. All 1RU panels are equipped with a stand-off style silk screen cover to allow for ease of custom silk-screening.
Each panel has a removable top, a fixed face plate, and removable rear access panels. The construction also provides the versatility to add a MTP coupler plate to the rear of the panel to create a "cassette" with the addition of internal arrays. The 1RU's, like all Methode patch panels, are all metal, light weight steel construction with a powder coated finish to provide a durable, scratch resistant structure.


1RU 24 Port
High-Density Panel


1RU 24 Port
High-Density Panel


1RU 24 Port
High-Density Panel


1RU 48 Port
High-Density Panel

Patch Panels: 1 RU

High Density Port Counts

- LC 12, 18, 24, 32, 36, & 48
- mSFP-LC 12, 18, 24, 32, 36, 48
- MU 12, 18, 24, 36, & 48
- SC 12, 18, 24
- MTRJ 12, 18, 24, 36, & 48

Various Coupler Types

- LC
- mSFP-LC
- MU
- SC
- MTRJ

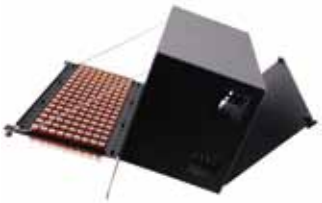
Modular Construction

- Removable top
- Removable rear plates
- Ease of cabling

Versatility

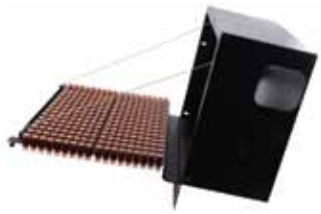
- Custom silk-screening
- Under floor or 23" rack mountable w/ minimal accessories
- Ability to convert to "cassette" w/ internal arrays

Methode's High Density Patch Panels are available in heights of 4 to 10RUs, and in port counts ranging from 72 ports in a 4RU frame to 512 ports in a 10RU frame. Methode offers strip style modular panels as well as fixed face plate panels in a variation of coupler types and form factors such as LC, mSFP-LC, and MU. Our panel selection includes front access panels, rear access panels, and panels with both front and rear access for ease of plugging and unplugging trunks. All Methode patch panels are all metal, light weight steel construction with a powder coated finish to provide a durable, scratch resistant structure. Custom silk-screening is also offered to suit our customers' individual needs.



7RU 144 Port Front/Rear Access Patch Panel

9RU 288 Port Patch Panel



9RU 288 Port Front Access Patch Panel

10RU High Density Patch Panel
w/Modular Strips
(Strips in 24, 32,48 Port LC 64 Port mSFP-LC)

Patch Panels: High Density

High Density Port Counts

- LC 72, 128, 144, 192, 256, 288, & 384
- mSFP-LC (strip style) from 64 -512
- MU 72, 128, 144, 192, 256, 288
- SC 144
- MTRJ 72, 128, 144, 192, 256, 288

Various Coupler Types

- LC
- mSFP-LC
- MU
- SC
- MTRJ

Various Constructions

- Fixed Face Plate
- Strip Style (Modular)
- Front Access
- Rear Access
- Front and Rear Access

Data Center Infrastructure Management Solutions

Methode takes a revolutionary approach to the emerging and highly dynamic field of Data Center Infrastructure Management with the introduction of DCIM Advantage Solutions. This integrated suite of solutions has been designed to be modular in nature allowing organizations to deploy DCIM programs in a functional fashion.

Four primary DCIM Advantage Solutions comprise the suite including LockTalk, UTrack, EnviroTrack, and PowerTalk. LockTalk is a secure electronic cabinet access solution that accommodates single factor up to 3 factor authentication for highly secure environments. LockTalk interacts with Methode's Intuitek touch sensitive keypads, Lumidigm's Mercury advanced biometric authenticator, HID proximity card access and remote NOC or SOC based access management. UTrack is an automated in-rack asset tracking, solution that allows for real-time monitoring of assets to the rack unit level. With UTrack installed, real-time asset tracking is now possible. EnviroTrack is an environmental monitoring and control solution that provides for multipoint temperature, airflow and humidity monitoring, reporting and alerting. PowerTalk is a power monitoring and control solution intended to inter-operate with an extensive set of Intelligent PDU units. In conjunction with a newly developed battery technology from Methode's Eetrex group, PowerTalk is capable of providing real-time power peak shaving within rack or cabinets as well as serve as transitional backup in the event of power loss .

All four of the DCIM Advantage Solutions leverage the new Methode DCIM Cabinet Control Module or CCM. This unique controller allows for complete consolidation of IP service based addresses to a single Ethernet port per cabinet. With the growth in a variety of end-point solutions, IP address space is under pressure inside the data center. As data center managers deploy DCIM solutions, an IP address consolidation scheme is essential to any DCIM deployment. With the new Methode DCIM CCM, the key cabinet based components necessary for an effective DCIM program can be consolidated to a single IP and, via a rich set of open API's, integrated into Methode's DCIM Advantage software interface or any other 3rd party set of tools as appropriate.

Simplicity, that's top of mind when we say Methode's Data Center Cabinet Appliance. Methode's innovative approach to data center asset management and monitoring brings powerful, flexible intelligence to your data center with user friendliness. The Data Center Cabinet Appliance's RU space is 100% usable. It is designed to be serviceable as a server or network enclosure in high or low density applications, meeting requirements of high-density population, extensive cable management, power, and cooling. Outfitted with Methode's Data Cabinet Intelligence Module (DCIM), the latest monitoring hardware and backend browser-based reporting system, the Data Center Cabinet Appliance is the intelligent addition to your data center.

Available in IBM White & Black

For more information on accessories for this product, please contact your Methode representative.

Cabinet Appliance

Construction

- 19" or 23" rack (user configurable)
- Fully welded 16 gauge frame
- 12 gauge mounting rails (with RU labels) formed 3 times for maximum strength
- Front and rear double doors, 180° swing ratio
- Locking, quick release side panels

Asset Management

- Data Cabinet Intelligence Module (IP addressable)
- Backend browser-based system configuration and reporting
- UTrack, RFID asset detection (assignable tags)
- EnviroTrack, Front and Rear air flow sensors, 6-Point temperature sensing and humidity sensing
- PowerTalk, Intelligent Power Distribution Unit
- LockTalk, Access control and monitoring (HID, keypad, remote, and keyed locks)
- Swing-handle locks on front and rear doors
- LCD touch interface and keyboard attached to front door

Cable Management

- Round cable pass-through holes and tie-down slots on all rails
- Easily accessible top panels without interfering with cables
- Vertical and horizontal lacing bars and a variety of 19" cable organizers

Cooling and Power

- Fan assisted top panels and doors (optional)
- 19" rack-mount fan trays (optional)
- Intelligent Power Distribution

Methode DCIM Advantage Solutions' UTrack℠ asset tracking provides real time tracking and control over data center assets. By making use of advanced near field communications technology, UTrack℠ is capable of tracking installed assets at the rack unit(s) level. UTrack℠ automatically detects the installation and removal of any asset installed or removed from a UTrack℠ enabled rack or cabinet. Dynamic and real-time reporting provides a range of asset management user scenarios. Via the combination of UTrack℠ and LockTalk℠ within the Methode DCIM Advantage Solution suite, compliance analysis can determine that the correct assets were acted upon by the authorized individuals or that the assets were installed into the correct cabinets and locations. With UTrack℠, the possibilities are endless when it comes to data center asset tracking.

DCIM Information Center

UTrack Tag

6RU Reader

UTrack℠

Error Free Asset Tracking

- No additional user actions to track assets
- "Push button" inventory reporting
- Enables true compliance reporting
- Expresses installed asset "truth"

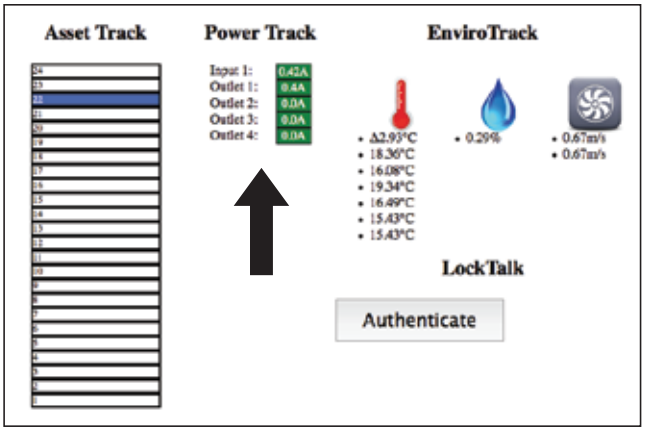
Enabling Other DCIM Functions:

- Asset placement accuracy
- Cabinet asset auto discovery
- Asset / Power matching
- Asset / Cooling matching
- Authorized asset servicing "user" via LockTalk℠ autocheck

Automate asset servicing workflows:

- Work ticket for asset provisioning
- Provisioning / De-provisioning scenario planning

Methode DCIM Advantage Solutions' PowerTalk℠ provides real time reporting of cabinet / rack installed intelligent power distribution unit(s) (iPDU) data. Connecting to a full range of 3rd party PDU products on the market, PowerTalk℠ provides instantaneous reporting on critical power values such as current, voltage, power factor, apparent power, real power, reactive power, frequency, input, bank reporting and outlet reporting. PowerTalk℠ has the added capability to take active control of intelligent PDU devices for power cycling, outlet or bank activation and deactivation as well as integration with Methode's newly launched Eetrex line of intelligent battery power management.



PowerTalk℠

Flexibility:

- Integrates a full range of 3rd party intelligent PDU products
- Robust power reporting and control

Powerful DCIM Integration:

- Balance power with asset loads
- Perform dynamic peak shaving with Eetrex intelligent battery solutions
- Outlet deactivation for idled assets

Streamlining The Infrastructure:

- Work ticket for asset provisioning
- IP consolidation via Methode DCIM Cabinet Control Module

Methode DCIM Advantage Solutions' LockTalk℠ access management provides robust electronic access control, audit, reporting, and alert management for data center cabinets. LockTalk℠ is capable of providing a range of authentication methodologies including multi-factor secure access.

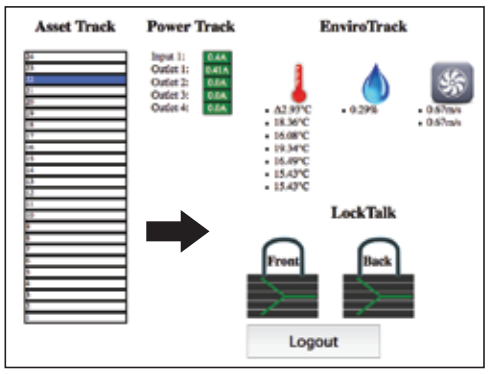
Access Options Include:

- Touch sensitive keypad for pin entry and door control
- Proximity Card Access
- Biometric Access
- 2d Barcode Access
- Remote access control via a company NOC or SOC facility.

Detailed logging of access events including individual access entry and access exit are available within the Methode DCIM Advantage Solution reporting software.

LockTalk Key Pad

Lock



LockTalk℠

Wide Range of Authentication Methods:

- Keypad Access
- Proximity Card Access
- Biometric Access
- Network based (NOC) Access
- Single to 3 factor authentication

Event Tracking, Reporting and Alerting:

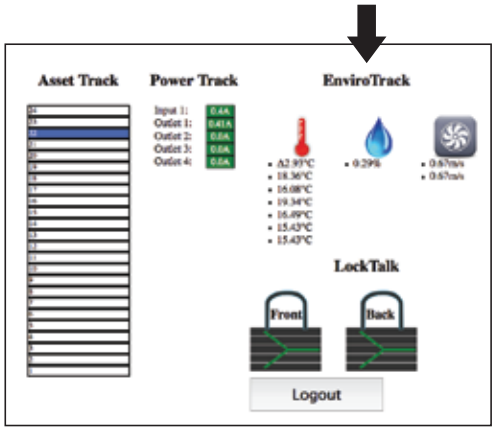
- Detailed logging of events
- Real time alerts and alarms
- Flexible reporting options

Flexible Cabinet and Lock Configuration:

- Works with a range of cabinet doors
- Multiple cabinet doors per cabinet
- Ideal for Co-Location clients
- Ideal for effective access tracking

Methode DCIM Advantage Solutions' EnviroTrack℠ provides real-time reporting of cabinet / rack installed environmental monitoring systems integrated with the Data Cabinet Intelligence Module (DCIM). A broad range of sensing functions are available in a variety of configurations to meet ASHRAE and other standards for environmental conditions. EnviroTrack℠ reports instantaneous and trending values for: 1) humidity, included on the DCIM itself, 2) temperature which is available at up to six different sensing points, 3) airflow which is available front-side and back-side of cabinet, 4) and air pressure. With EnviroTrack℠ installed in dense cabinet configurations, it is now possible to provide real-time modeling of CFD values and perform scenario planning for data center cooling and capacity management.

Environmental
Monitoring Sensors



EnviroTrack℠

Sensor Types:

- Humidity
- Temperature
- Air Flow
- Air Pressure

Dynamic DCIM Reporting:

- Real-time reporting
- Trending
- Environment to Asset Loading
- Environment to Power Loading
- Real-time CFD modeling

DCIM Planning:

- Asset expansion
- Rack / Cabinet placement

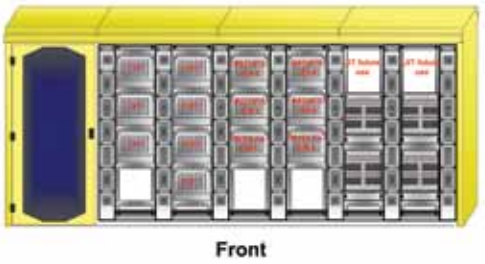
Data Center Cabinets

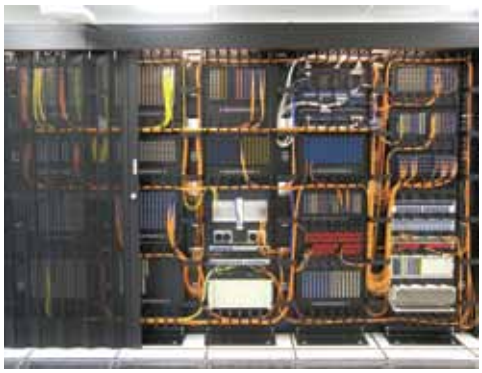
Discover the possibilities with Methode's DC Series Cabinet, the best way to manage and house your data center hardware and cabling; and the Methode line of ME Enclosures, manufactured to be versatile in nearly any indoor environment.

Methode's DC Series Cabinets combine functionality, security, and superior cable management in an expandable modular design. The design begins with the installation of a base two-bay (two back-to-back / two post racks) cabinet with door storage "garage" and can be expanded up to a maximum of 26 bays based upon cabinet depth and door style. The TIA 45RU 19" four-post rack configuration coupled with available front access patch panels allows you to maximize the use of space inside your data center and obtain double density with the most connectivity in a small footprint. Equipped with horizontal and vertical cable management and front to rear pass through troughs, you can obtain an easily managed cabling infrastructure eliminating the running of cabling overhead or under the floor. Secured with standard keyed locks or biometric access and individual hinged perforated doors or single accordion doors, the cabinet reduces the risk of damaging cabling and unplugging of connectivity.

The ME Enclosures line of cabinets is a highly versatile grouping of cabinets for multiple applications in small to large networking applications, small office use, or large data center deployments. Styles available include wall mount enclosures for general applications, wall/mount swing out enclosures to support heavier equipment and cabling applications, and NEMA wall mount enclosures to be compliant with the National Electrical Manufacturers Association's Type 12 Standard for protection in harsh environments. The standard ME Enclosure provides a range of sizes from 13 to 44RU with 100% usable RU space with multiple options for cable management, cooling, and power.

The Methode 42" DC Series Cabinet is a main distribution cabinet that is modular and expandable from 2-bay units to a maximum of 22-bay units. Each cabinet provides comprehensive cable management with standard vertical and horizontal cable management and pass through troughs from front to rear. Based internally upon a four-post standard TIA 19" 45RU equipment rack, the 42" series provides a working depth of 24" between rails. Cabinets are available with individual sliding hinged doors to allow access to an individual bay or the entire cabinet when slid into the storage "garage" or one single accordion door that collapses onto itself taking up less valuable floor space. These functions allow faster planning and change management in a robust secure environment.


Front



DC Series Cabinet: 42" Series

Kit #1
Part #: DC-4202BKM1G

- Base 2-bay 1-garage cabinet
- Expandable to a maximum of 11 bays
- Individual hinged perforated doors
- Black textured finish
- 88.5"H x 96.5"W x 43.5"D

Kit #2
Part #: DC-4202BKM2G

- Base 2-bay 2-garage cabinet
- Expandable to a maximum of 22 bays
- Individual hinged perforated doors
- Black textured finish
- 88.5"H x 125.75"W x 43.5"D

Kit #3
Part #: DC-4202ACD1G

- Base 2-bay 1-garage cabinet
- Expandable to a maximum of 16 bays
- One piece accordion door
- Black textured finish
- 88.5"H x 78.5"W x 43.5"D

When a base 2-bay cabinet is just not enough to fulfill your requirements, Methode provides single and 2-bay expansion kits to help grow your DC Series Cabinet as needed. Each kit is ordered according to the base cabinet's depth and door style. Kits are available with individual hinged perforated doors or single accordion doors just like the base cabinet. Each kit matches the base cabinet's black textured finish and is shipped in component parts to your site for final assembly to the base cabinet.

DC Series Cabinet: 42" Expansions

Kit #1
Part #: DC-4201BKMAD

- 42" single bay addition
- Individual hinged perforated doors
- Add an additional 26.5" to cabinet width

Kit #2
Part #: DC-4202BKMAD

- 42" 2-bay addition
- Individual hinged perforated doors
- Add an additional 52.75" to cabinet width

Kit #1
Part #: DC-4201ACDAD

- 42" single bay addition
- One piece accordion door
- Add an additional 26.5" to cabinet width

Kit #2
Part #: DC-4202ACDAD

- 42" 2-bay addition
- Individual hinged perforated doors
- Add an additional 52.75" to cabinet width

The Methode 48" DC Series Cabinet is a main distribution cabinet that is modular and expandable from 2-bay units to a maximum of 26-bay units. Each cabinet provides comprehensive cable management with standard vertical and horizontal cable management and pass through troughs from front to rear. Based internally upon a four-post standard TIA 19" 45RU equipment rack, the 48" series provides a working depth of 30" between rails. Cabinets are available with individual sliding hinged doors to allow access to an individual bay or the entire cabinet when slid into the storage "garage" or one single accordion door that collapses onto itself taking up less valuable floor space. These functions allow faster planning and change management in a robust secure environment.

DC Series Cabinet: 48" Series

Kit #1
Part #: DC-4802BKM1G

- Base 2-bay 1-garage cabinet
- Expandable to a maximum of 13 bays
- Individual hinged perforated doors
- Black textured finish
- 88.5"H x 96.5"W x 49.5"D

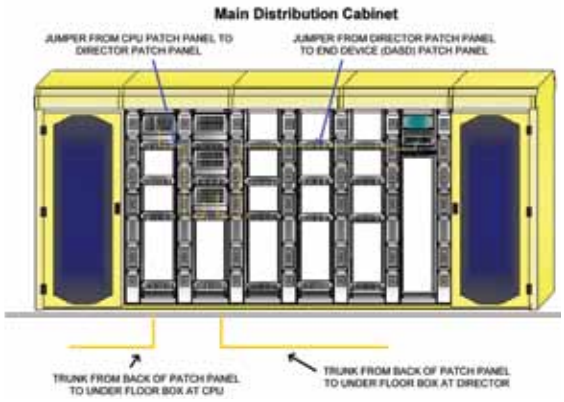
Kit #2
Part #: DC-4802BKM2G

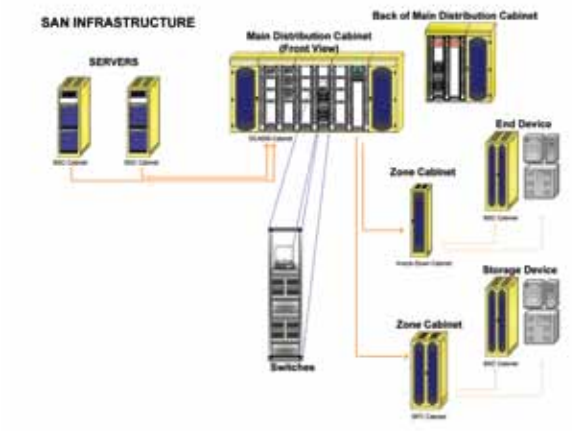
- Base 2-bay 2-garage cabinet
- Expandable to a maximum of 26 bays
- Individual hinged perforated doors
- Black textured finish
- 88.5"H x 125.75"W x 49.5"D

Kit #3
Part #: DC-4802ACD1G

- Base 2-bay 1-garage cabinet
- Expandable to a maximum of 20 bays
- One piece accordion door
- Black textured finish
- 88.5"H x 78.5"W x 49.5"D

When a base 2-bay cabinet is just not enough to fulfill your requirements, Methode provides single and 2-bay expansion kits to help grow your DC Series Cabinet as needed. Each kit is ordered according to the base cabinet's depth and door style. Kits are available with individual hinged perforated doors or single accordion doors just like the base cabinet. Each kit matches the base cabinet's black textured finish and is shipped in component parts to your site for final assembly to the base cabinet.





DC Series Cabinet: 48" Expansions

Kit #1
Part #: DC-4801BKMAD
- 48" single bay addition
- Individual hinged perforated doors
- Add an additional 26.5" to cabinet width

Kit #2
Part #: DC-4802BKMAD
- 48" 2-bay addition
- Individual hinged perforated doors
- Add an additional 52.75" to cabinet width

Kit #1
Part #: DC-4801ACDAD
- 48" single bay addition
- One piece accordion door
- Add an additional 26.5" to cabinet width

Kit #2
Part #: DC-4802ACDAD
- 48" 2-bay addition
- Individual hinged perforated doors
- Add an additional 52.75" to cabinet width

Methode provides many accessories to customize the DC Series Cabinet to your individual requirements. Lighting kits, sized according to single or two bay kits are available to provide additional illumination to the front and rear of the cabinet; making moves, additions, and changes quicker and providing risk management. Need to circulate air within the cabinet to increase cooling for equipment? Add a cooling kit to the bay to help pull heated exhaust air out of the cabinet and cool air in. Many other options, including power, switch rails, shelving, and cable management upgrades are available.

DC Series Cabinet Accessories

Kit #1
Part #: Single Light Kit
- Sized for single bay addition kit
- Fluorescent lighting for front and rear
- Linkable to additional lights
- 110VAC power requirement

Kit #2
Part #: Double Light Kit
- Sized for base cabinet and two bay addition kit
- Fluorescent lighting for front and rear
- Linkable to additional lights
- 110VAC power requirement

Kit #3
Part #: Cooling Fan Kit
- Four 4" 50cfm fans
- Fans linked together with single power cord
- 110VAC power requirement

Methode's enclosures are designed to accommodate servers and the challenging conditions associated with them, from high density population to extensive cable management, power and cooling requirements. With 100% usable RU space, the ME Server Enclosure can act as a server or network enclosure in both high and low density applications. The design, features, and accessories make it a perfect fit in any data center environment.

All ME Server Enclosures have a weight capacity of 2,000 lbs.

ME Server Enclosures

Construction

- 14 gauge frame, formed for strength
- Door has 3 hinges, allows for 180° swing ratio
- 44RU, heavy duty 12 gauge mounting rails, all RUs are usable

Cable Management

- Increased rear vertical capacity (over 9")
- New 3"W x 3"D vertical cable troughs (optional)

Power Handling

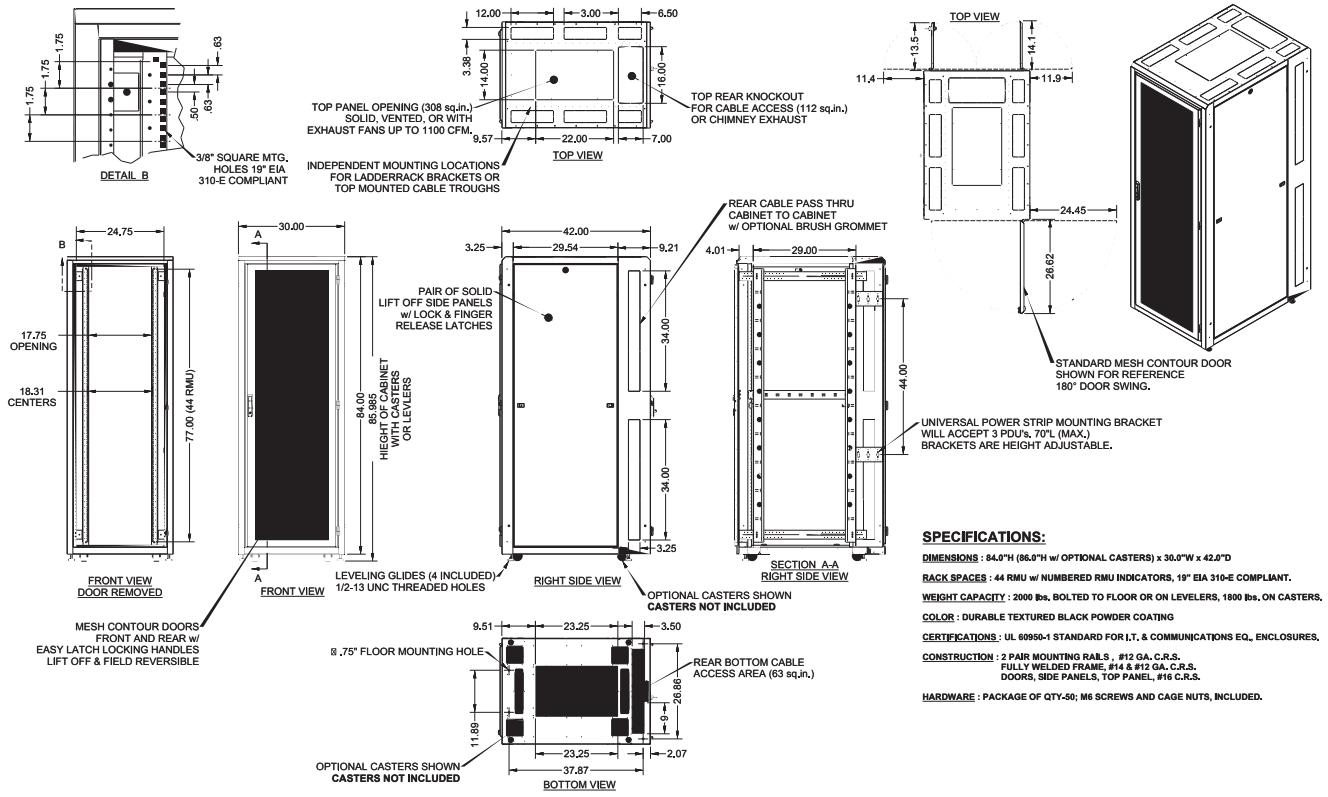
- Zero RU 19" EIA mounting for any 1RU equipment
- Up to 2 vertical troughs & 1 PDU or 1 vertical trough & 2 PDUs per rear corner

Contour Mesh Doors

- Standard front & rear
- Increased area of mesh & total airflow
- Can accept fans to eliminate hot spots & aid in horizontal ventilation
- Standard easy latching handle

For more information on accessories for this product, please contact your Methode representative.

ME Server Enclosures



SPECIFICATIONS:

DIMENSIONS : 84.0"H (86.0"H w/ OPTIONAL CASTERS) x 30.0"W x 42.0"D

RACK SPACES : 44 RMU w/ NUMBERED RMU INDICATORS, 19" EIA 310-E COMPLIANT.

WEIGHT CAPACITY : 2000 lbs. BOLTED TO FLOOR OR ON LEVELERS, 1800 lbs. ON CASTERS.

COLOR : DURABLE TEXTURED BLACK POWDER COATING

CERTIFICATIONS : UL 60950-1 STANDARD FOR I.T. & COMMUNICATIONS EQ., ENCLOSURES.

CONSTRUCTION : 2 PAIR MOUNTING RAILS , #12 GA. C.R.S.
FULLY WELDED FRAME, #14 & #12 GA. C.R.S.
DOORS, SIDE PANELS, TOP PANEL, #16 C.R.S.

HARDWARE : PACKAGE OF QTY-50; M6 SCREWS AND CAGE NUTS, INCLUDED.

ME Server Enclosures are provided standard with side panels and contour mesh doors mounted on the front and rear. Should your needs require just an open frame or a custom version of any standard ME Server Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-4401-3048	84"	30"	48"	44
ME-4401-2448	84"	24"	48"	44
ME-4401-3042	84"	30"	42"	44
ME-4401-2442	84"	24"	42"	44
ME-4201-3042	78"	30"	42"	42
ME-4201-2442	78"	24"	42"	42
ME-2401-2442	48"	24"	42"	24

Methode's line of ME Enclosures are manufactured to be versatile in nearly any indoor environment. Enclosures range from 13 to 44RU, with 100% usable RU space. Doors, top panels, and bottom panels can be configured for unique applications. A range of sizes and enclosure options mean enclosures can be configured for small office use, or deployed in large data centers.

72" and 84" height enclosures have the weight capacity of 1,500 lbs.; smaller enclosures range from 300 to 600 lbs.

ME Enclosures

Construction

- Fully welded 16 gauge frame
- 12 gauge mounting rails (with RU lables) formed three times for maximum strength
- Field reversible doors with 180° swing ratio
- Locking, quick release side panels

Cable Management

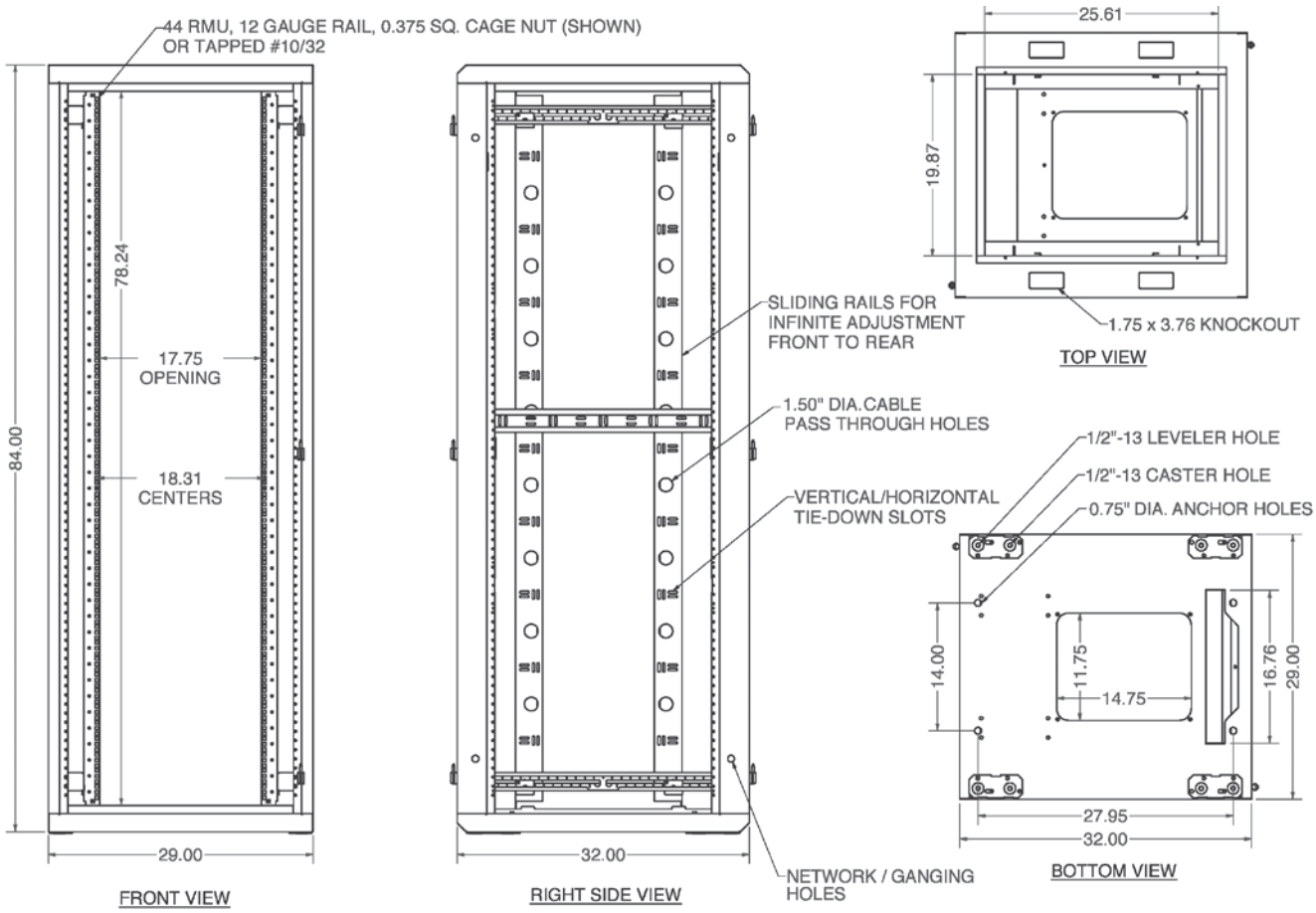
- Round cable pass through holes and vertical/horizontal tie down slots on all rails
- Horseshoe knockouts found on all top panels allow removal of tops without interfering with cables
- Vertical and horizontal lacing bars (optional)
- A variety of 19" cable organizers (optional)

Cooling and Power

- Fan assisted top panels and doors (optional)
- 19" rack mount fan trays (optional)
- 16 position power strip installed with button mounting in rear of 72" and 84" height enclosures
- 19" rack mount power strips in 30, 48, and 60"H enclosures

For more information on accessories for this product, please contact your Methode representative.

ME Enclosures



ME Enclosures are provided standard with vented top panel, plexi front door, perimeter vented steel rear door, side panels, power strip, and 2.5" levelers. Should your needs require an open frame or a custom version of any standard ME Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-4400-2436	84"	24"	36"	44
ME-4400-2432	84"	24"	32"	44
ME-3700-2936	72"	29"	36"	37
ME-3700-2932	72"	29"	32"	37
ME-3700-2436	72"	24"	36"	37
ME-3700-2432	72"	24"	32"	37
ME-3100-2432	60"	24"	32"	31
ME-2400-2432	48"	24"	32"	24

Methode's NEMA enclosure is manufactured to be compliant with the National Electrical Manufacturers Association's Type 12 Standard. NEMA 12 enclosures are intended for indoor use to provide a degree of protection against dust, falling dirt, water and non-corrosive liquids.

To cool the inside of the enclosure, an optional filter or fan assembly mounts in the bottom of the front door. Due to inside pressure, dust and particles are forced out through a filter at the top of the rear door.

The NEMA free standing enclosure has a weight capacity of 2,000 lbs.

ME NEMA Enclosure

Construction

- Fully welded 14 gauge body and doors
- 12 gauge mounting rails with RU labels
- Gland plates on each side panel for optional air conditioners

Cable Management

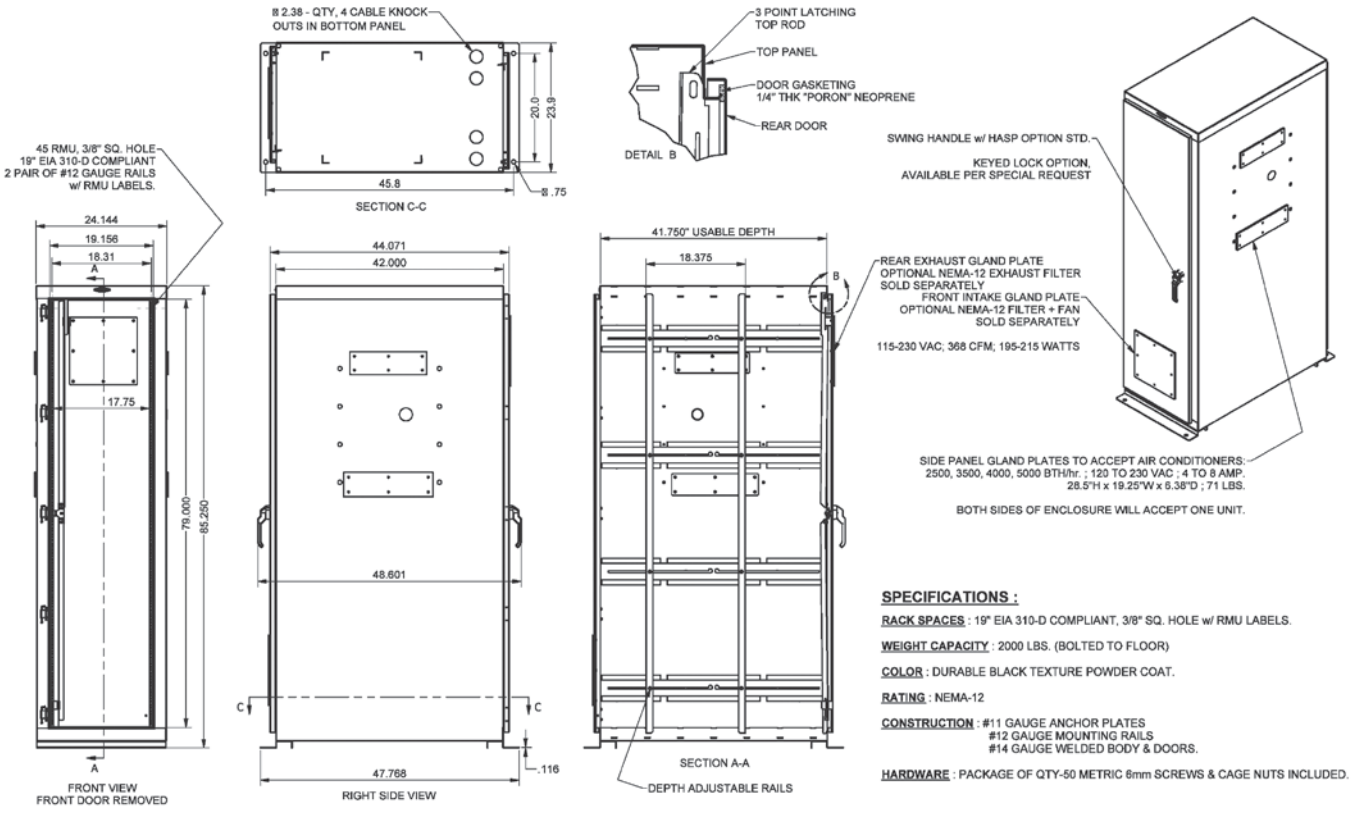
- Cable knockouts in front of bottom panel
- A variety of 19" cable organizers (optional)
- Vertical lacing bars (optional)

Cooling and Power

- Air conditioner (2500 to 6000 BTU) with digital temperature controller and alarm (optional)
- Fan assembly (230 to 368 CFM) and exhaust filters (optional)
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

ME NEMA Enclosure



SPECIFICATIONS :

RACK SPACES : 19" EIA 310-D COMPLIANT, 3/8" SQ. HOLE w/ RMU LABELS.

WEIGHT CAPACITY : 2000 LBS. (BOLTED TO FLOOR)

COLOR : DURABLE BLACK TEXTURE POWDER COAT.

RATING : NEMA-12

CONSTRUCTION : #11 GAUGE ANCHOR PLATES
#12 GAUGE MOUNTING RAILS
#14 GAUGE WELDED BODY & DOORS.

HARDWARE : PACKAGE OF QTY-50 METRIC 6mm SCREWS & CAGE NUTS INCLUDED.

NEMA Enclosures are provided standard with a fully welded body with front and rear doors. Should your needs require a custom version of the standard Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-4500NEMA-2442	84"	24"	42″	45

Methode's line of Wall Boxes offer RU mounting for small patch panel and switch applications. Wall Boxes are able to be mounted vertically or horizontally to accommodate users and equipment.

Wall Mount Enclosures have the following weight capacities:

200WB, 2RU, 50 lbs.
400WB, 4RU, 75 lbs.

ME Wall Boxes

Pictured with cover (included)

Pictured without cover

Construction

- Simple 4 piece, bolt-together design
- Light weight body and cover plate
- Removable cover plate to access equipment and cables

Cable Management

- Large cut out on back of mount for cable access
- Cable tie down slots

Cooling and Power

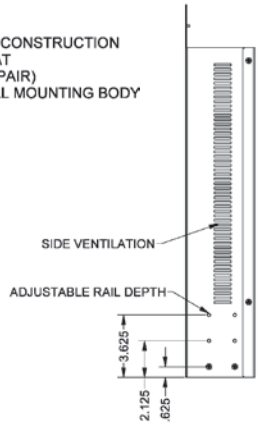
- Side ventilation for natural airflow
- 19" rack mount power strips (optional)

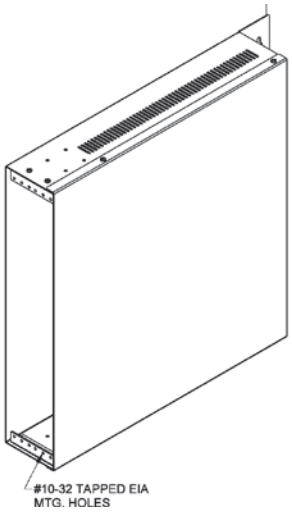
For more information on accessories for this product, please contact your Methode representative.

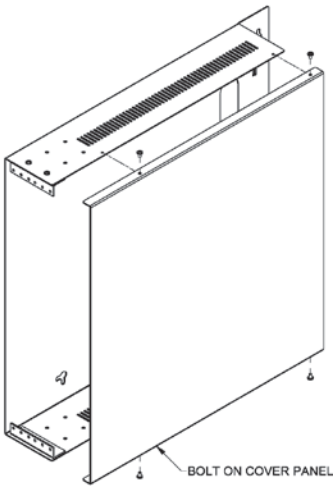
ME Wall Boxes

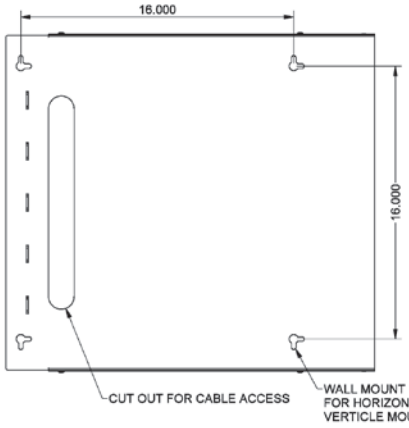
CONSTRUCTION:

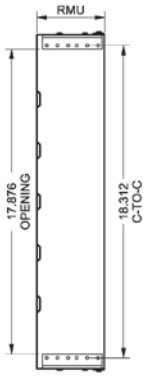
SIMPLE 4 PIECE BOLT TOGETHER CONSTRUCTION
DURABLE TEXTURE POWDER COAT
#12 GA. C.R.S. RAIL BRACKETS (1 PAIR)
#16 GA. C.R.S. LIGHT WEIGHT WALL MOUNTING BODY
#16 GA. C.R.S. COVER PANEL

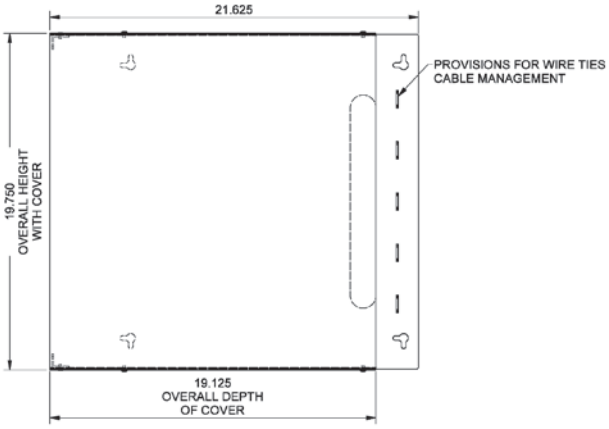












Wall Boxes are provided standard with a body and cover panel. Should your needs require a custom version of any standard Wall Mount Boxes platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-200WB-1921	4"	19.75"	21.63″	2
ME-400WB-1921	7.5"	19.75"	21.63″	4

Methode's line of Wall Mount (Deep) Enclosures feature increased depth and weight capacity to accommodate servers and larger pieces of equipment. The Wall Mounts are designed to offer user convenience, but are still able to be configured with accessories (shelves, dust kits, power strips) to accommodate a variety of equipment.

Wall Mount (Deep) Enclosures have the following weight capacities:

1100WMD, 11RU, 250 lbs.
1800WMD, 18RU, 300 lbs.
2500WMD, 25RU, 350 lbs.

ME Wall Mount (Deep) Enclosures

Construction

- Three "piece" sectional design
- Center swing section to allow access to back of equipment
- Reversible mounting for right or left hand swing

Cable Management

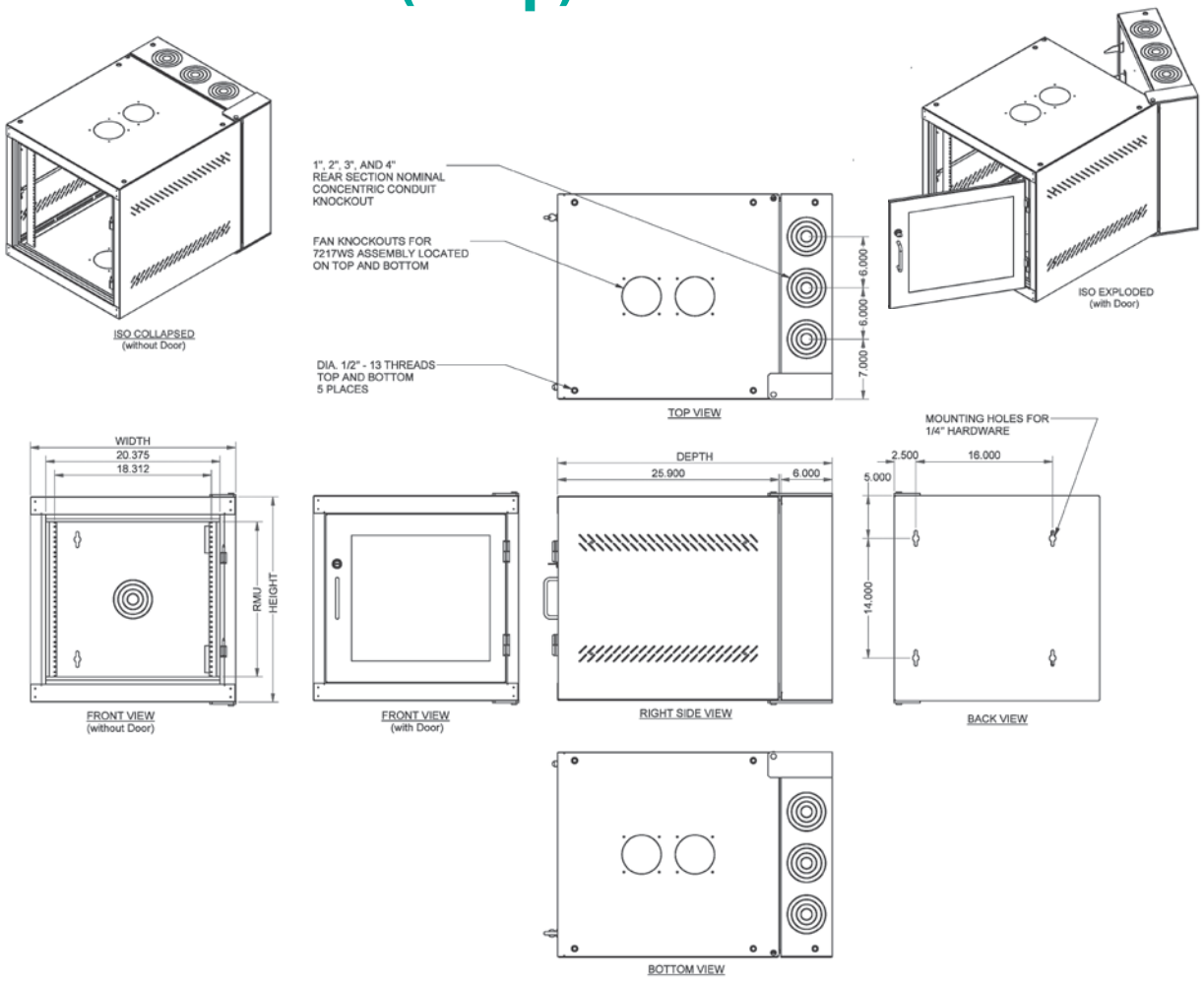
- 1 – 4" conduit knockouts on top and bottom of rear section
- 1 – 4" conduit knockouts on center of rear section
- A variety of 19" cable organizers (optional)

Cooling and Power

- Knockouts on top and bottom to accept fan assembly
- Vented sides to allow natural airflow
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

ME Wall Mount (Deep) Enclosures



Wall Mount (Deep) Enclosures are provided standard with a plexi front door. Should your needs require a custom version of any standard Wall Mount (Deep) Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1100WMD-2432	24"	24"	32.13"	11
ME-1800WMD-2432	36"	24"	32.13"	18
ME-2500WMD-2432	48"	24"	32.13"	25

Methode's Server Wall Mount Enclosure is designed to allow the mounting of servers while reducing the open space normally required to install the equipment. The Server Wall Mount is mounted across three studs, providing the necessary strength to hold heavy servers.

Wall Server Wall Mount Enclosure has a weight capacity of 350 lbs.

ME Server Wall Mount Enclosure

Construction

- Two mesh side doors to access front and rear of equipment
- Removable, locking front panel
- Mounting holes to mount across three wall studs

Cable Management

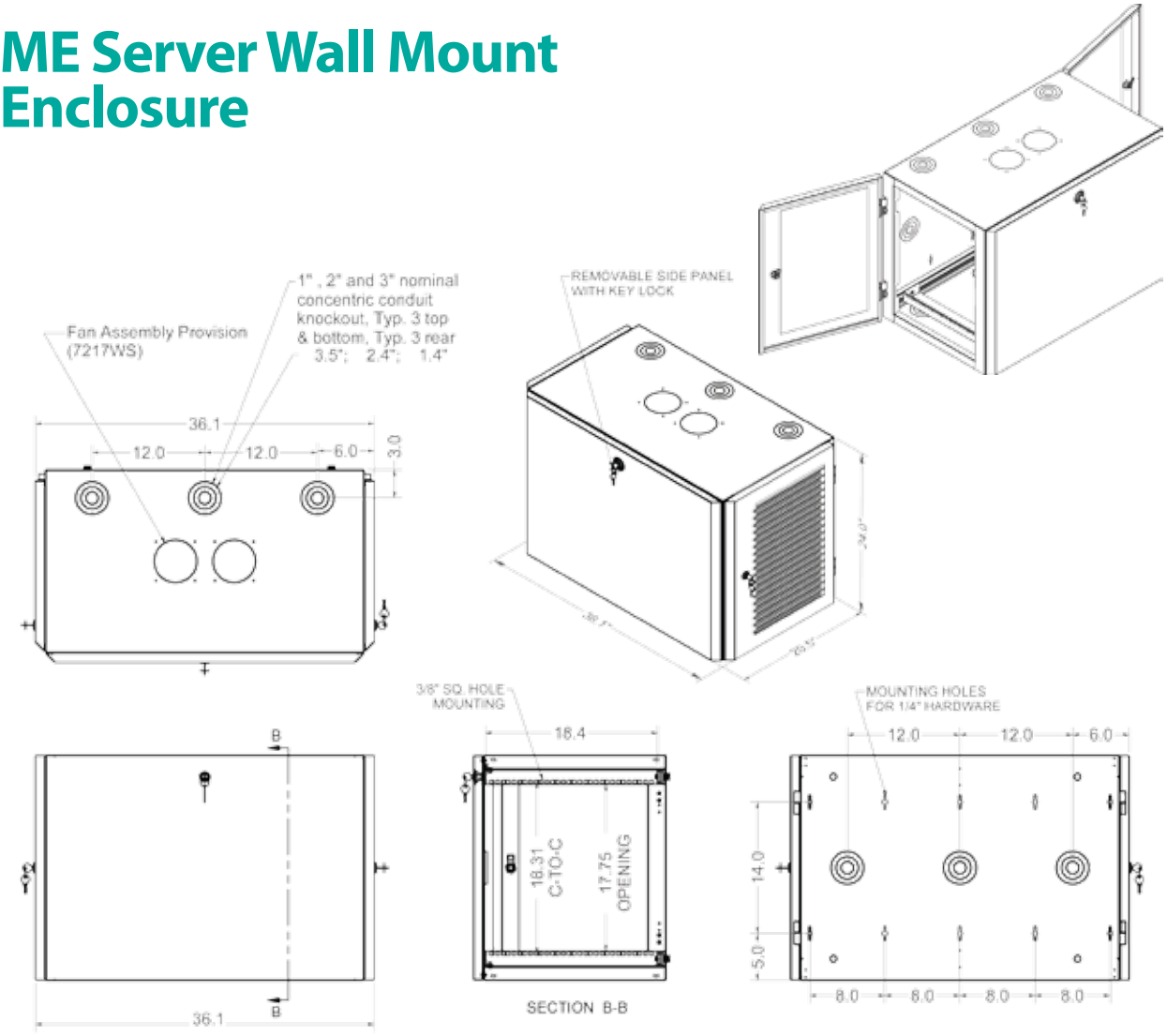
- 1 – 3" conduit knockouts on top and bottom of mount
- 1 – 3" conduit knockouts on rear of mount
- A variety of 19" cable organizers (optional)

Cooling and Power

- Knockouts on top and bottom to accept fan assembly
- Mesh sides to allow natural airflow
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

ME Server Wall Mount Enclosure



The Server Wall Mount Enclosure is provided standard with mesh sides and a solid removable front panel. Should your needs require a custom version of the standard Server Wall Mount Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1000SWM-3620	24"	36.1"	20.5"	10

Methode's line of Wall Mount/Swing Out Enclosures are designed to support heavier equipment and cabling applications. The wall mounts offer a high weight capacity when mounted to the wall, and an increased capacity when free standing (casters must be used).

Wall Mount/Swing Out Enclosures have the following mounted weight capacities:

1100WMSO, 11RU, 250 lbs.
1800WMSO, 18RU, 300 lbs.
2500WMSO. 25RU, 350 lbs.

ME Wall Mount / Swing Out Enclosures

Construction

- Three "piece" sectional design
- Heavy duty bolt hinges between wall and middle section
- Reversible mounting for right or left hand swing

Cable Management

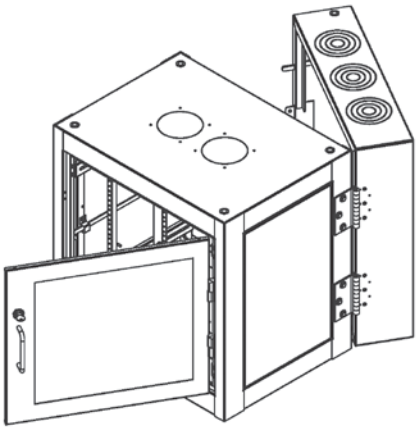
- 1 – 4" conduit knockouts on top and bottom of rear sections
- 1 – 4" conduit knockouts on rear section
- A variety of 19" cable organizers (optional)

Cooling and Power

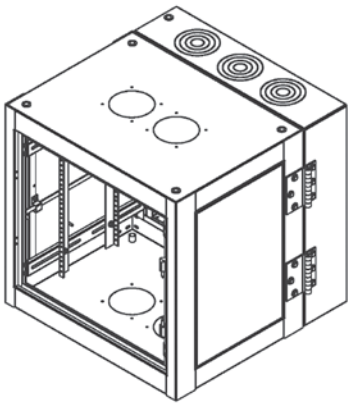
- Knockouts on top and bottom to accept fan assembly
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

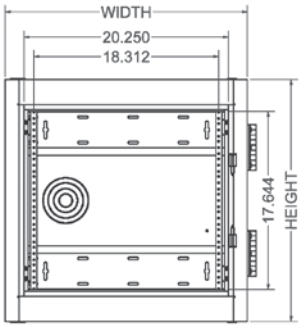
ME Wall Mount Swing Out Enclosures



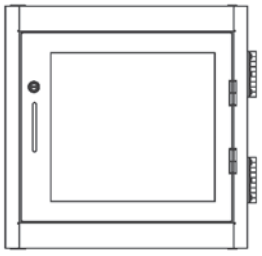
ISO EXPLODED
(with Door)



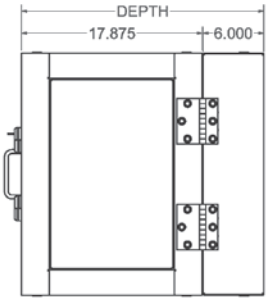
ISO COLLAPSED
(without Door)



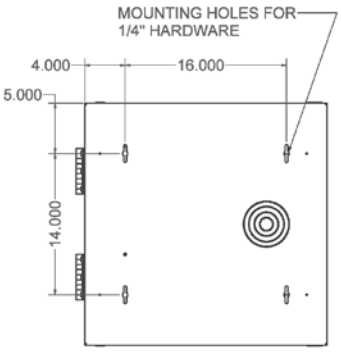
FRONT VIEW
(without Door)



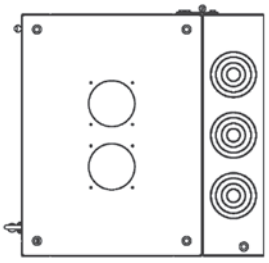
FRONT VIEW
(with Door)



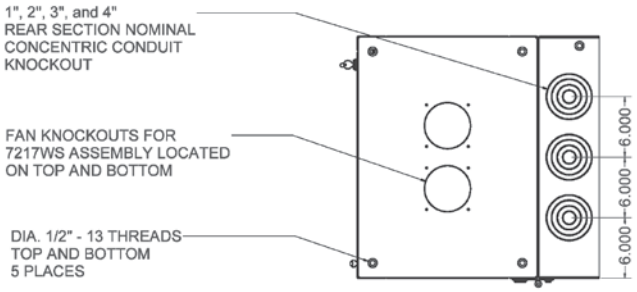
RIGHT SIDE VIEW



BACK VIEW



BOTTOM VIEW



TOP VIEW

Wall Mount/Swing Out Enclosures are provided standard with a plexi front door and solid sides. Should your needs require a custom version of any standard Wall Mount/Swing Out Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1100WMSO-2424	24"	24"	24"	11
ME-1800WMSO-2424	36"	24"	24"	18
ME-2500WMSO-2424	48"	24"	24"	25

Methode's line of Wall Mount Enclosures- available in four sizes - feature cable management and cooling support for small to large networking applications. The Wall Mounts are designed to offer user convenience, but are still able to be configured with accessories (shelves, dust kits, power strips) to accommodate a variety of equipment.

Wall Mount Enclosures have the following weight capacities:

1200WM, 12RU, 150 lbs.
1900WM, 19RU, 250 lbs.
2500WM. 25RU, 300 lbs.

ME Wall Mount Enclosures

Construction

- Three "piece" sectional design using continuous hinge
- Independent locking front door and rear section
- Center swing section to allow access to back of equipment
- Reversible mounting for right or left hand swing

Cable Management

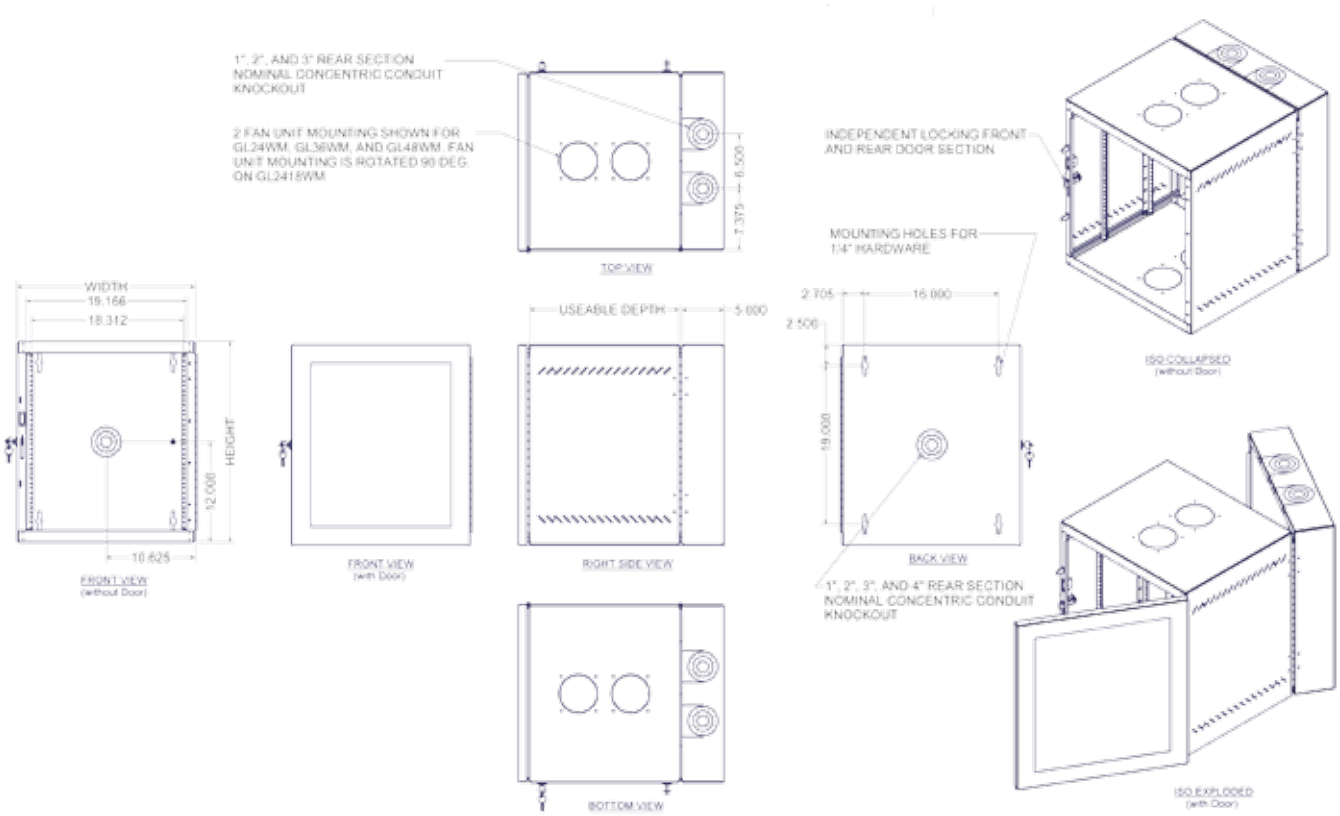
- 1 – 3" conduit knockouts on top and bottom of rear sections
- 1 – 3" conduit knockouts on sides of rear section
- A variety of 19" cable organizers (optional)

Cooling and Power

- Knockouts on top and bottom to accept fan assembly
- Vented sides to allow natural airflow
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

ME Wall Mount Enclosures



Wall Mount Enclosures are provided standard with a plexi front door. Should your needs require a custom version of any standard Wall Mount Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1200WM-2118	24"	21.25"	18"	12
ME-1200WM-2124	24"	21.25"	24.5"	12
ME-1900WM-2124	36"	21.25"	24.5"	19
ME-2500WM-2124	48"	21.25"	24.5"	25

Methode's line of NEMA Wall Mount Enclosures are manufactured to be compliant with the National Electrical Manufacturers Association's Type 12 Standard. NEMA 12 enclosures are intended for indoor use to provide a degree of protection against dust, falling dirt, water, and non-corrosive liquids.

NEMA Wall Mount Enclosures have the following weight capacities:

1200NEMA, 12RU, 150 lbs.
1900NEMA, 19RU, 250 lbs.
2600NEMA, 26RU, 300 lbs.

ME NEMA Wall Mount Enclosures

Construction

- 14 gauge center body and rear section
- 14 gauge rear section with over-center latches and locking latch with dust cover
- 16 gauge front door with draw latches and locking latch with dust cover
- 12 gauge mounting rails with #12-24 holes

Cable Management

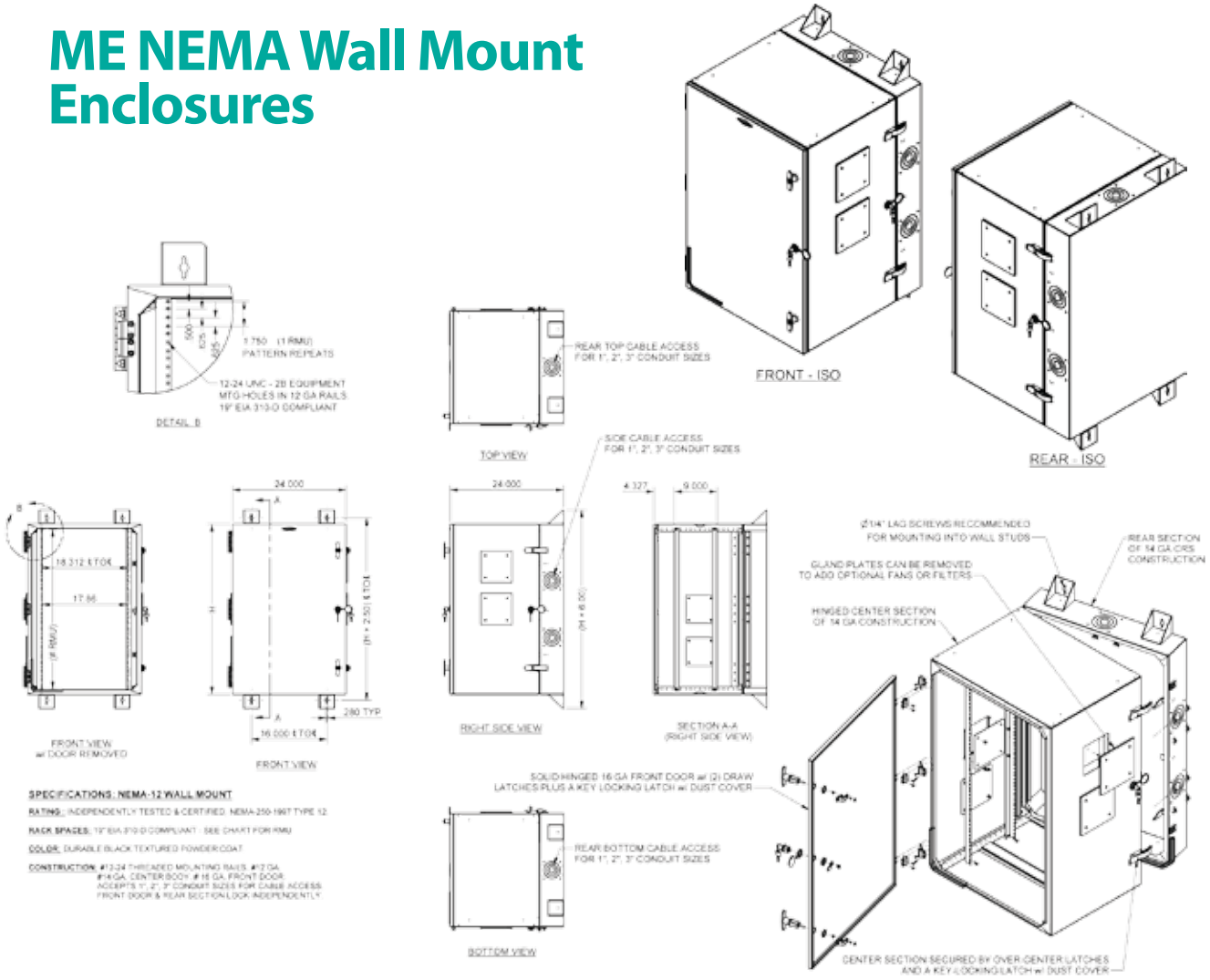
- 1 – 3" conduit knockouts on top and bottom of rear sections
- 1 – 3" conduit knockouts on sides of rear section
- A variety of 19" cable organizers (optional)

Cooling and Power

- Gland plates on each side panel for optional fan and filters
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

ME NEMA Wall Mount Enclosures



ME NEMA Wall Mount Enclosures are provided standard with a front door, center body and rear section. Should your needs require a custom version of any standard NEMA Wall Mount platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1200NEMAWM	24"	24"	24"	12
ME-1900NEMAWM	36"	24"	24"	19
ME-2600NEMAWM	48"	24"	24"	26

Methode's enclosures are designed to accommodate servers and the challenging conditions associated with them, from high density population to extensive cable management, power and cooling requirements. With 100% usable RU space, the ME Server Enclosure can act as a server or network enclosure in both high and low density applications. The design, features, and accessories make it a perfect fit in any data center environment.

All ME Server Enclosures have a weight capacity of 1000 kilos

European Series ME Server Enclosures

Construction

- 2mm thick frame, formed for strength
- Door has 3 hinges, allows for 180° swing ratio
- 44RU, heavy duty 2mm thick gauge mounting rails, all RUs are usable

Cable Management

- Increased rear vertical capacity (over 228mm)
- New 75mmW x 75mmD vertical cable troughs (optional)

Power Handling

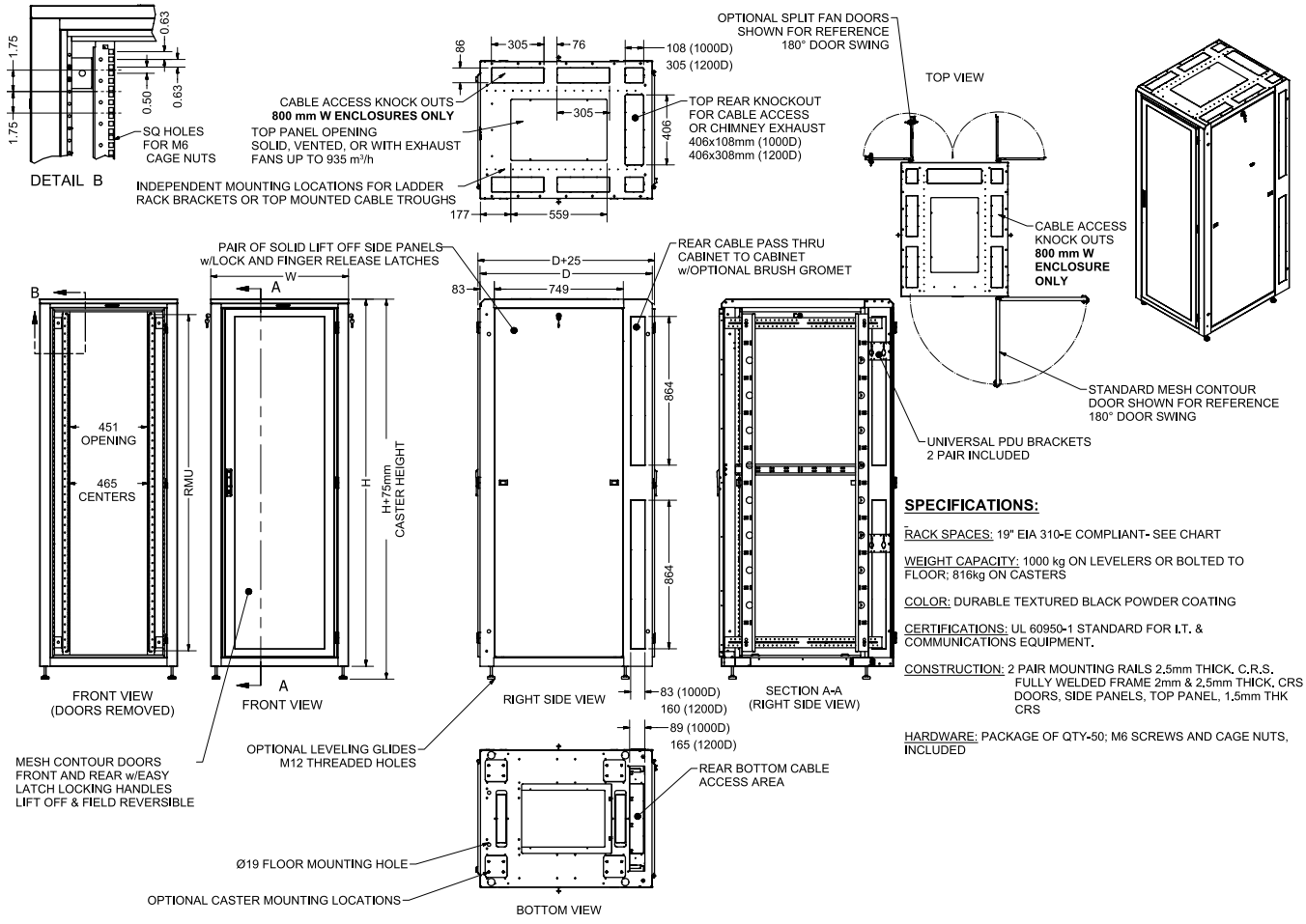
- Zero RU and 19" EIS mounting for any 1RU equipment
- Up to 2 vertical troughs & 1 PDU or 1 vertical trough & 2 PDUs per rear corner

Contour Mesh Doors

- Standard front & rear
- Increased area of mesh & total airflow
- Can accept fans to eliminate hot spots & aid in horizontal ventilation
- Standard easy latching handle

For more information on accessories for this product, please contact your Methode representative.

European Series ME Server Enclosures



SPECIFICATIONS:

RACK SPACES: 19" EIA 310-E COMPLIANT- SEE CHART

WEIGHT CAPACITY: 1000 kg ON LEVELERS OR BOLTED TO FLOOR; 816kg ON CASTERS

COLOR: DURABLE TEXTURED BLACK POWDER COATING

CERTIFICATIONS: UL 60950-1 STANDARD FOR I.T. & COMMUNICATIONS EQUIPMENT.

CONSTRUCTION: 2 PAIR MOUNTING RAILS 2.5mm THICK, C.R.S. FULLY WELDED FRAME 2mm & 2.5mm THICK, CRS DOORS, SIDE PANELS, TOP PANEL, 1.5mm THK CRS

HARDWARE: PACKAGE OF QTY-50; M6 SCREWS AND CAGE NUTS, INCLUDED

ME Server Enclosures are provided standard with side panels and contour mesh doors mounted on the front and rear. Should your needs require just an open frame or a custom version of any standard ME Server Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-4401-80120	2134mm	800mm	1200mm	44
ME-4401-60120	2134mm	600mm	1200mm	44
ME-4401-80100	2134mm	800mm	1000mm	44
ME-4401-60100	2134mm	600mm	1000mm	44

Methode's line of Wall Mount Enclosure - available in four sizes - feature cable management and cooling support for small to large networking applications. The Wall Mounts are designed to offer user convenience, but are still able to be configured with accessories (shelves, dust kits, power strips) to accommodate a variety of equipment.

Wall Mount Enclosures have the following weight capacities:

1200WM, 12RU, 115 kilos
1900WM, 19RU, 136 kilos
2500WM. 25RU, 160 kilos

European Series ME Wall Mount Enclosures

Construction

- Three "piece" sectional design using continuous hinge
- Independent locking front door and rear section
- Center swing section to allow access to back of equipment
- Reversible mounting for right or left hand swing

Cable Management

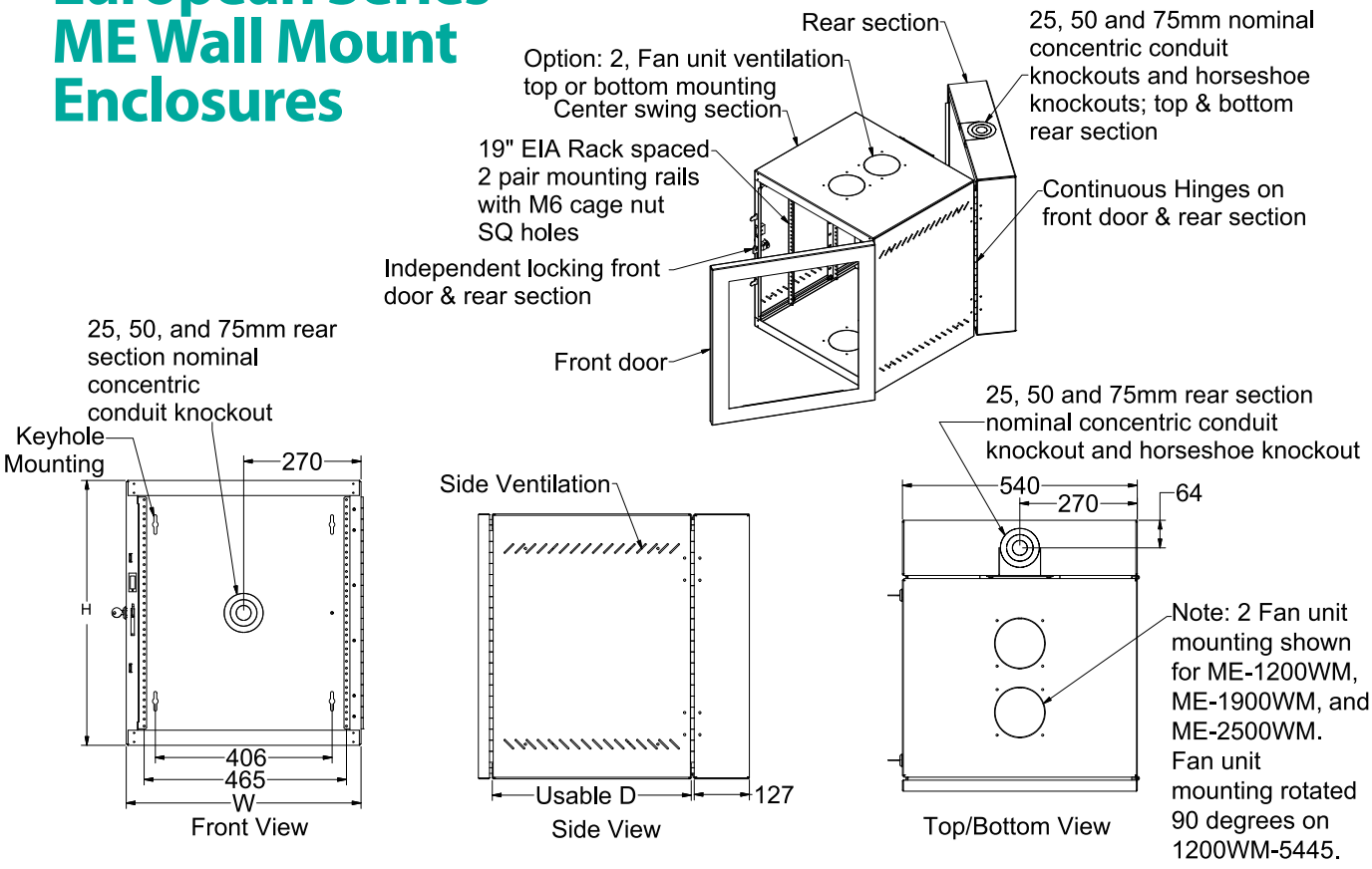
- 25-75mm conduit knockouts on top and bottom of rear sections
- 25-75mm conduit knockouts on sides of rear section
- A variety of 19" cable organizers (optional)

Cooling and Power

- Knockouts on top and bottom to accept fan assembly
- Vented sides to allow natural airflow
- 19" rack mount power strips (optional)

For more information on accessories for this product, please contact your Methode representative.

European Series ME Wall Mount Enclosures



Wall Mount Enclosures are provided standard with a plexi front door. Should your needs require a custom version of any standard Wall Mount Enclosure platform, please contact your Methode representative. We can develop a custom solution to meet your specific requirements. (Extended lead times on custom product configurations may apply.)

Part Number	Height	Width	Depth	RU
ME-1200WM-5445	610mm	540mm	457mm	12
ME-1200WM-5462	610mm	540mm	622mm	12
ME-1900WM-5462	914mm	540mm	622mm	19
ME-2500WM-5462	1219mm	540mm	622mm	25

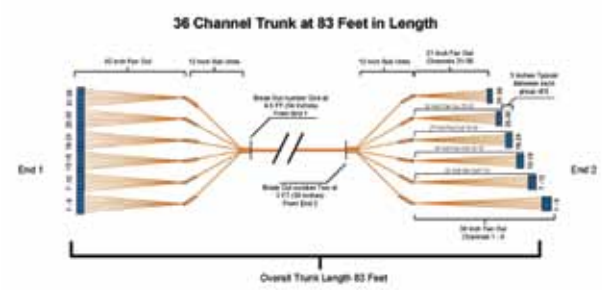
Professional Services

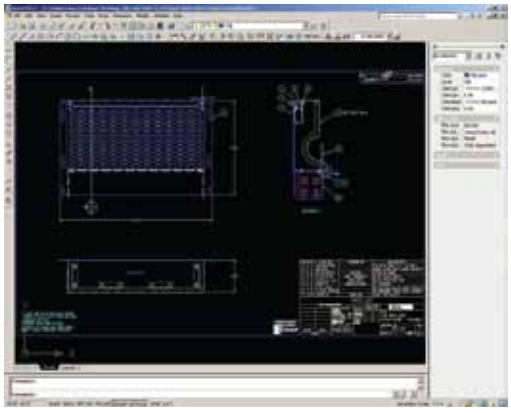
Methode focuses on staying ahead of our clients needs. Our reputation for expert knowledge and quality services supports the challenges you and your company face regarding information transport. Methode provides design, installation, and maintenance services to its clients internationally through our corporate office with a team of highly motivated project managers who average 14+ years in the industry, 10+ years at Methode, and a combined experience of over 175 years. Our team of experienced and professional specialists understand that the success of your project is determined by preparation and planning.

Methode's project management staff and specialized technicians are well trained and equipped to meet the most demanding industry and client requirements. They regularly attend courses from BICSI and Corning Cable Systems. Individual members maintain certifications as BICSI ITS Technicians, Fiber Optic Association Certified Fiber Optic Technicians, and Electronics Technician Association Fiber Optic Installers. Methode's training is designed around certifications which require continuing education to maintain current certifications. With technologies changing at a rapid pace, you can feel confident that Methode's members are trained and familiar with the latest standards and practices.

With today's economy being a world-wide economy, Methode maintains a global presence for select clients through a partnership program with other companies specializing in cabling infrastructure design, installation, and maintenance. These companies are corporate members of BICSI and perform installations and services on behalf of Methode. When necessary, large projects are surveyed and designed by Methode's project management team before hand-off to one of our global partners. Our partners are capable of performing local services in the same manner as Methode through services contracts and maintenance agreements.

As a leading innovator in data center products, Methode has the capability to provide custom fabrication services to meet our client's individual needs. Our team can perform an analysis of your needs and provide detailed drawings in CAD, 3D modeling in SolidWorks, and rapid prototyping for special applications. With in-house manufacturing capabilities we can provide initial samples and prototypes to check for form, fit, and function before release to the manufacturing floor. Providing the final finish to our products, custom silk-screen printing is available with equipment designations, port identifiers, and other information to match hardware layouts. When an off-the-shelf item does not meet your requirements, let us develop the solution that will.





Custom Fabrication Services

Engineering Services:

- On-site review and measurements
- Detailed CAD drawings
- 3D modeling in SolidWorks
- Rapid prototyping and pre-fabrication samples
- Reverse engineering of obsolete components

Manufacturing Services:

- Custom copper & fiber optic cable designs and lengths
- Patch panel configuration matched to hardware layouts
- Specialty cabinet configurations
- Silk-screen printing to design request
- Custom finish colors

When it is time for new infrastructure or upgrading and adding to your existing infrastructure, let Methode's team of experienced project managers assist you in designing your needs to meet the latest industry standards. With an average of over twelve years experience in designing, upgrading, and installing data center infrastructure, our team can evaluate the current infrastructure, determine its needs and provide accurate documentation; all the while focusing on providing the highest quality of service in the industry. Team members can assess, audit, and document the existing infrastructure, evaluate the needs for upgrades and migrations, or design complete new builds and expansions on site with your personnel.

Infrastructure Design

New Infrastructure Design:

- On site evaluation and design
- New design floor plans
- Cabinet/Rack level elevation drawings
- Bill of materials and project plan

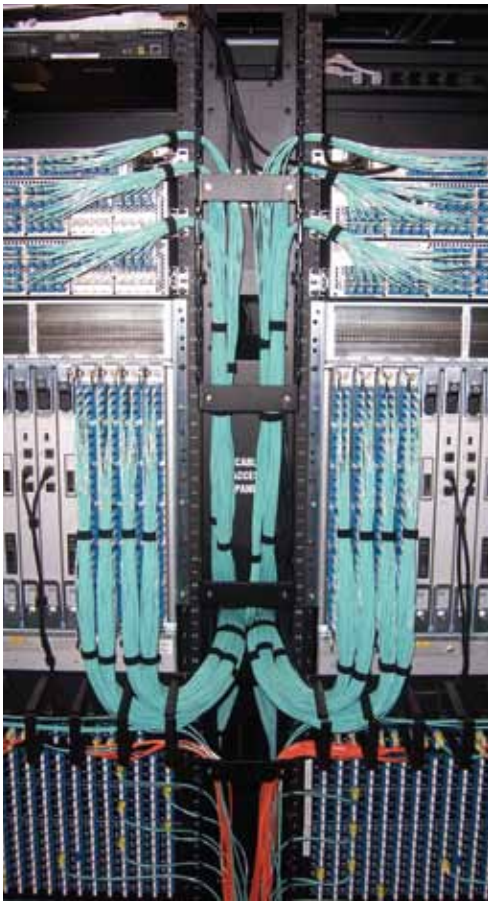
Infrastructure Improvement Planning:

- On site evaluation of existing infrastructure & cable management
- Identify where industry standard practices can be implemented to improve overall operational efficiency and performance
- Bill of materials and implementation plan

Risk Assessment & Strategic Planning:

- On site evaluation of existing infrastructure to identify areas of risk for potential outages
- Detailed strategic plan to correct or mitigate risks
- Recommended materials and implementation plan

Methode's team of highly-skilled technicians installs both copper and fiber cabling infrastructure solutions whether factory terminated or field terminated along with all support systems and cabinetry. Our industry trained technicians maintain certifications through BICSI, the FOA, and ETA and you can be assured they are up to date with the latest standards. Senior technical staff design and execute installation processes to minimize downtime and ensure accurate placement of data center equipment. Methode technicians pride themselves on providing the highest level of customer service in the industry and strive to build long-term relationships becoming not only a services provider but a business partner.



Installation Services

Planning & Management:

- Installations scheduled around the client's needs to avoid interfering with data center operations
- Project management of client or 3rd party installations

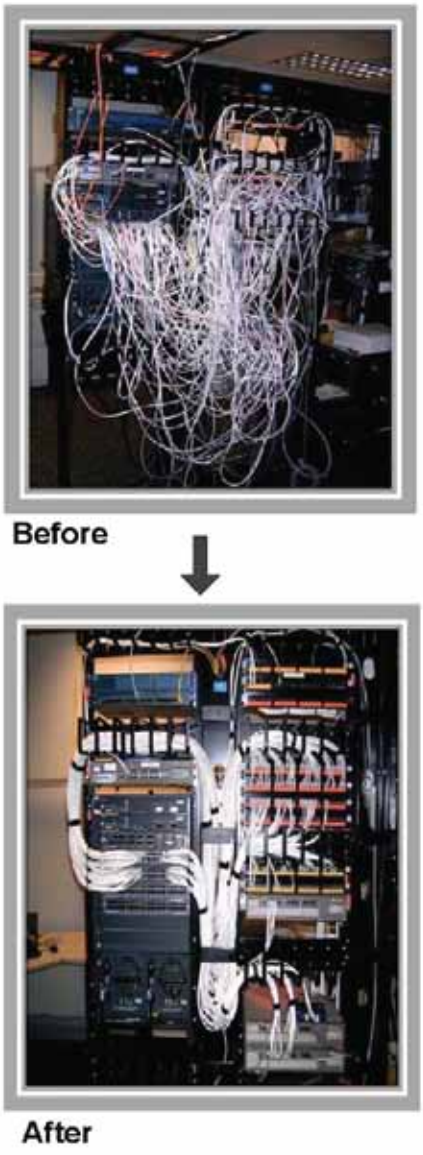
Installations:

- Copper & fiber optic solutions
- Tray & support systems
- Cabinets & racks

Support:

- Rack hardware & equipment
- Post installation cable testing of client or 3rd party installations
- Diagnostics and troubleshooting
- Cut-over assistance

Methode offers a wide variety of maintenance services to ensure that our clients fully utilize their existing assets and are able to perform daily data center operations with smaller budgets. Whether your needs are for additional manpower, support for day-to-day moves/adds/changes, or extending the life of your current infrastructure, Methode can help. We can refurbish existing cables, provide cable testing, diagnostic services and re-termination to deliver the most cost-effective solution to maximize performance and service life.



Maintenance Services

Technician Support:

- Moves/adds/changes
- Decommissioning of cabling & equipment
- Migration of cabling & equipment
- Recertification of cabling
- Emergency diagnostics and repairs
- Reclamation of infrastructure components

Manufacturing Services:

- Refurbish existing cabling
- Re-termination of cabling
- Recertification of cabling
- Repair of damaged cabling
- Benefit/Option

Active Energy Solutions

The Methode Active Energy Solution provides an innovative and valuable approach to data center energy and power management. Methode is releasing a family of solutions designed to provide power consumption peak shaving capability via distributed energy storage at the cabinet.

Eetrex, a Methode subsidiary, is well-recognized as an industry leader of lithium-ion batteries and technology. Since its inception in 2006, Eetrex has designed, tested and prototyped a variety of customized electrical systems to meet the growing demand for clean, safe and reliable battery systems and power solutions for the telecommunications, data storage and automotive industries. Methode has leveraged their latest technologies for these other industries to create new, innovative battery solutions for data centers.

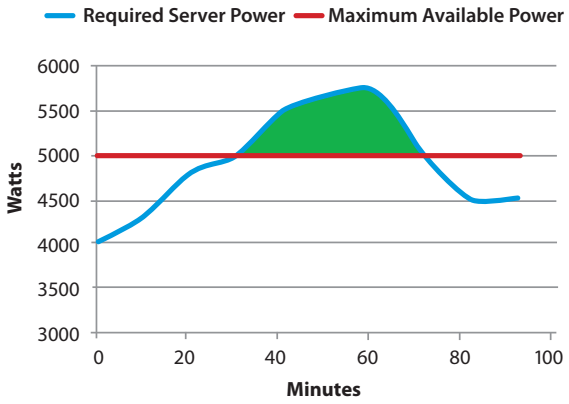
The patent pending peak shaving technology implemented in these solutions allow data centers to continue to run more servers at peak power consumption for extended periods of time, without needing to throttle back server performance or take servers off line. This extended peak power consumption capability allows the data centers to continue to provide the maximum server performance to their end customers at the most critical high usage times.

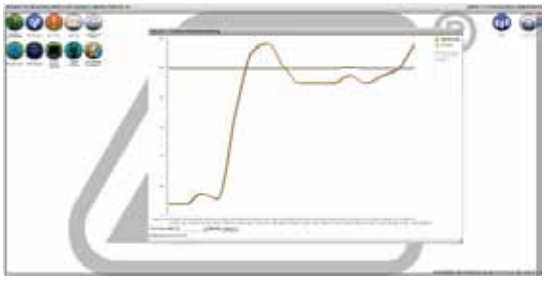
The Active Energy solutions supplies additional power from the battery system's energy reserve, enabling the peak without requiring additional power from the power grid. This has the added benefit of reducing peak-time rate increases and fines. It also enables increased server consumption capability without data center infrastructure upgrades. Additionally, these Active Energy systems provide UPS functionality with DC based, zero transfer time backup.

The initial two products in the Active Energy solutions line are the Eetrex Active AD5000 and Eetrex Active DC5000. Both of these units enable 48V DC supply to the servers, while only taking up 1RU of cabinet space and enabling more than 5000W of power output. The AD5000 allows for traditional 110, 208, or 240V AC to be brought into the cabinet and supplies 48V DC power out. The DC5000 uses 48V DC power at both the input and output, and can control external rectifiers.

All Eetrex Active systems are designed to integrate flawlessly with the DCIM Advantage Solutions, enabling active peak shave capability and power backup to be intelligently delivered at the cabinet.

Eetrex's AC to DC Peak Shaving UPS battery is designed to provide an active battery solution allowing for dynamic power control at the cabinet. This highly efficient unit takes 110, 208 or 240 VAC in and provides 48 VDC out and will support equipment drawing up to 5000W of power in a 1RU format. By setting the energy threshold of these units the peak shaving capability can provide incremental power without exceeding breaker or peak power consumption limits. The Eetrex Active Battery Solution reduces exposure to higher peak rates and increases the power capacity of individual cabinets. These units can also serve as a fully functioning UPS should power to the rack go offline.





For more information on accessories for this product, please contact your Methode representative.

Eetrex Active AD 5000

Peak Shaving

- Patent Pending Technology
- Provides up to 5000 W of power
- 1-hour maximum run time at 750 W of draw
- Increase burstable rack capacity by 100%
- 1-3 year ROI
- Substantial operational savings gained by preventing the use of the power grid during peak charge times

UPS

- Lithium ION Technology
- Fully functioning UPS
- Rapid recharge
- Less heat generation than traditional UPS'
- 3-7 years of battery life

Battery Management System

- Leverages years of automotive research
- Maintains battery cell power balance
- Provides high efficiency power management
- Integrated safety electronics

Automated Software Interface

- Administrative interface for behavior configuration
- Alerts generated for low power, running on UPS and performance issues
- Reporting

Eetrex Active AD 5000

System Specifications

Efficiency ..... AC to DC (Bypass) - >92%
Protection ..... Overload, Over Temperature

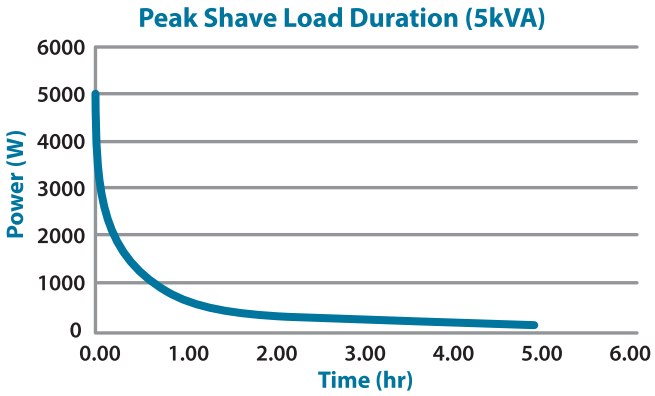
Battery Charger

Charger Algorithm .....3 stage profile (CC/CV/Float)
Charger Current 35A
DC Voltage 48V
Overcharge Protection 60V
Charger Power Factor ..... >0.98
Protection ..... Discharge, Overcharge, Overload
ENVIRONMENTAL
Operating Temp. Range ..... 0°C to +45°C
Storage Temp. Range ..... -20°C to +60°C
Humidity ..... 0% to 95%, Non-Condensing
Cooling ..... Integral Fans

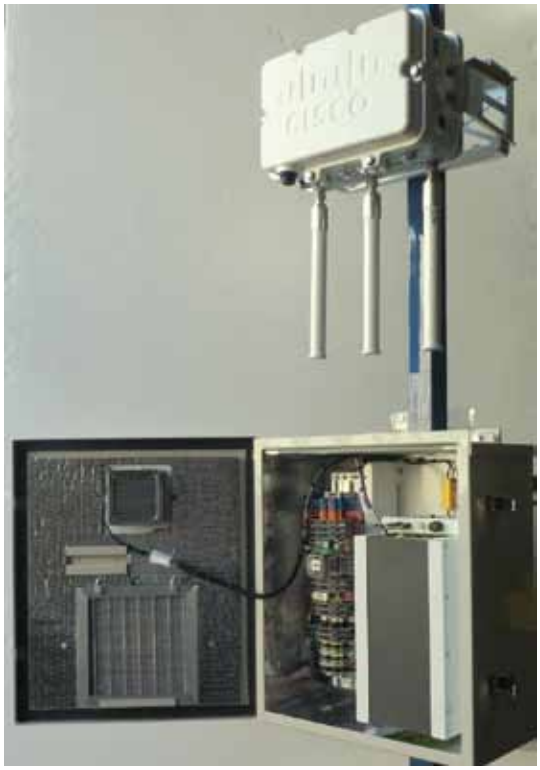
Physical Specifications

Case Material ..... Black Coated Steel
Dimensions, Inches ..... 1U high or 1.75 H x 17.5 W x 32.0 D
Weight ..... Approx. 50 lbs.
Battery Size ..... 900 Wh
Useable Capacity .....750 Wh
Estimated Back-Up Time: 3000W .....5 minutes
Estimated Back-Up Time: 5000W .....10 seconds

System Availability



The Eetrex PMB 12-R is a pole mounted battery backup system designed to support a pole-mounted Wireless Access Point (WAP). The system can accept a wide range of AC input voltages and provide clean 12V regulated power to run a typical WAP for up to 18 hours. The system is self managing, and transitions from charge to energy support with zero transfer time.



Eetrex PMB 12-R

Electrical Interface

- System input: BMS controlled charger accepts single phase AC between 90V and 305V, consuming up to 320W at 95% efficiency
- System output: System provides 40W at 12VDC for up to 18 hours of optimized WAP support

Energy Storage

- Utilizes advanced Lithium-ion Nickel Manganese Cobalt technology.
- Battery configuration of 14 series, 6 parallel of 4.4Ah cells, resulting in 1.3kWh of system energy, with 1kWh BOL useable energy

Advanced Battery Management System

- Leverages years of automotive research
- Maintains battery cell power balance
- Provides high efficiency power management, with integrated safety electronics
- Controls system thermal management, including exhaust fan and heaters
- Maintains a database of key system usage and performance information

Mechanical Design

- Packaged in NEMA 3R enclosure, specifically designed for utility and light pole mounting..
- Dimensions: 18" x 16" x 9" (457x406x229mm)
- Weight: Approximately 46 lbs (21kg)

Eetrex PMB 12-R: 12VDC Pole-Mounted Battery Backup System

Electrical Interface

AC Input	90-305VAC
AC Input Frequency	47-63Hz
Charging Efficiency	95%
Charger Power	320W Max
DC Output Voltage	12V
DC Output Power	40W
DC Output Voltage	12V
Backup Time	Up to 18hrs

Battery System

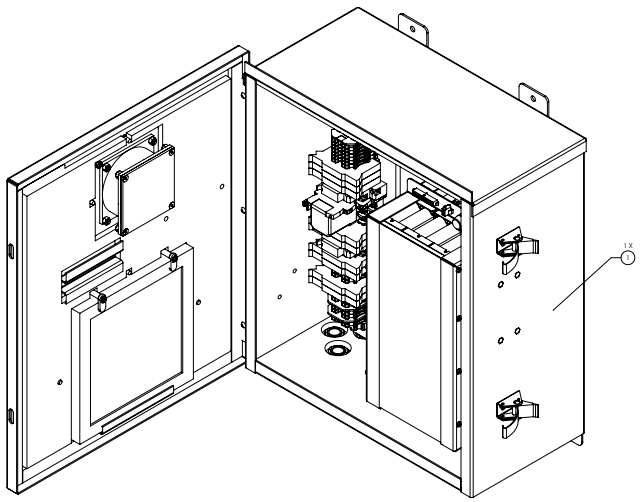
Battery DC Voltage	48V
Battery Configuration	14S6P
Battery Cells	Li-ion 4.4Ah NMC
Battery Size	1,300 Wh
Useable Capacity (BOL)	1,000 Wh

Environmental

Operating Temp. Range	-40ºC to +50ºC
Storage Temp. Range	-20ºC to +60ºC
Humidity	5% to 85%, Non-Condensing
Cooling	Integral Fans
Heating	Active Resistive

Physical Specifications

Dimensions	18" x 16" x 9" (457x406x229mm)
Weight	Approx. 46 lbs (21kg)



Methode Power Distribution Units (PDU's) are available in a variety of options and are typically in stock and available for immediate delivery. The available PDU's may be ordered as stand alone units or as pre-installed accessories in one of Methode's many data center cabinet options. Methode offers standard and intelligent PDU's (iPDU) in both vertical (Zero RU) and 19" horizontal mount configurations.

Power Distribution

Part #	PDU Description
	No Metering - Non Intelligent
* PDU-221111F10	0RU 30A/208V (22) C13 Single Phase PDU w/IEC309P Plug - Dumb
* PDU-221112F10	0RU 30A/208V9 (22) C13 Single Phase PDU w/L6-30P Plug - Dumb
* PDU-121112F10	0RU 30A/208V (12) C13 Single Phase PDU w/L6-30P Plug - Dumb
* PDU-121132F10	0RU 30A/208V (12) C13 Three Phase PDU w/L15-30P Plug - Dumb
PDU-063112F10	1RU 30A/208V (6) C19 Single Phase PDU w/L6-30P Plug - Dumb
PDU-063615F10	1RU 60A-230V (6) C19 Single Phase PDU w/IEC60309P CEE Blue 3P+E Plug - Dumb
PDU-063734F10	1RU 32A/230V-400V (6) C19 Three Phase PDU w/IEC60309P CEE Red 3P+N+E Plug - Dumb
PDU-063315F10	1RU 32A/230V (6) C19 Single Phase PDU w/ IEC60309P Plug - Dumb
PDU-081816F07	1RU 16A/230V (8) C13 Single Phase PDU w/IEC320 C20P Plug - Dumb
PDU-063513F10	1RU 50A/208V (6) C19 Single Phase PDU w/CS8265CP Plug - Dumb
* PDU-1251120F10	0RU 30A/208V (10) C13 & (2) C19 Single Phase PDU w/L6-30P Plug - No metering / Dumb
PDU-0681120F10	1RU 30A/208V (4) C13 & (2) C19 Single Phase PDU w/L6-30P Plug - No metering / Dumb
PDU-1561380F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - No Metering / Dumb
PDU-1563350F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - No Metering /Dumb
PDU-3079350F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - No metering / Dumb
PDU-12A1380F10	0RU 30A/208V (9) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - No Metering / Dumb
	Intelligent Circuit Metering - Local (Slave)
PDU-1251121F10	0RU 30A/208V (10) C13 & (2) C19 Single Phase PDU w/L6-30P Plug - Local circuit metering
* PDU-1561381F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - Local circuit metering
PDU-1563351F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - Local Circuit metered
PDU-3079351F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - Local circuit metering
	Intelligent Circuit Metering - Remote (IP) (Master)
PDU-1251122F10	0RU 30A/208V (10) C13 & (2) C19 Single Phase PDU w/L6-30P Plug - Remote circuit metering
* PDU-1561382F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - Remote circuit metering
PDU-1563352F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - Remote Circuit metered
PDU-3079352F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - Remote circuit metering
	Intelligent Outlet Metering - Remote (IP) (Master)
PDU-1691123F10	0RU 30A/208V (10) C13 & (6) C19 Single Phase PDU w/L6-30P Plug - Remote outlet metering
PDU-1561383F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - Remote Outlet metering
PDU-1563353F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - Remote Outlet metering
PDU-3079353F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - Remote Outlet metering
	Intelligent Outlet Metering - Remote (IP) (Master) - Switchable / (On/Off Control)
PDU-1691124F10	0RU 30A/208V (10) C13 & (6) C19 Single Phase PDU w/L6-30P Plug - Remote switchable outlet metering
PDU-1561384F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - Remote Switchable Outlet metering
PDU-1563354F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - Remote switchable Outlet metering
* PDU-3079354F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - Remote Switchable Outlet metering
	Intelligent Outlet Metering - Local (IP) (Slave) - Switchable / (On/Off Control)
PDU-3079355F10	0RU 60A/208V (24) C13 & (6) C19 Three Phase PDU w/IEC60309P Plug - Local Switchable Outlet metering
PDU-1563355F10	0RU 30A/230V-400V (12) C13 & (3) C19 Three Phase PDU w/IEC60309P Plug - Local switchable Outlet metering
PDU-1561385F10	0RU 30A/208V (12) C13 & (3) C19 Three Phase PDU w/L15-30P Plug - Local Switchable Outlet metering
PDU-1691125F10	0RU 30A/208V (10) C13 & (6) C19 Single Phase PDU w/L6-30P Plug - Local switchable outlet metering

* In-Stock Items

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