

Pre-Configured Micro Data Center for Industrial Network Deployment

specifications

The pre-configured micro data center shall be factory assembled to include the connectivity and cable management necessary to enable rapid installation of switch, server, and storage devices. The pre-configured micro data center shall be offered in both 24 RU and in a 42 RU cabinet configuration. The cabinets shall allow installation of standard 29 inch (737mm) depth equipment. All metal elements within the cabinet shall be fully bonded to ensure effective equipment grounding. Each micro data center shall incorporate a set of four casters to simplify deployment. Optional add-on kits shall be offered to enable equipment expansion and additional systems features.



technical information

	24 RU Micro Data Center	42 RU Micro Data Center
Dimensions:	23.9 in. (606mm)	27.6 in. (701mm)
	42.0 in. (1066mm)	49.8 in. (1266mm)
	48.4 in. (1230mm)	78.1 in. (1984mm)
Material:	Powder Coated Galvanized Steel	
Compliance:	RoHS Compliant	
Static load rating:	2000 lbs.	2500 lbs.
Packaging:	1250 lbs. rated pallet, ramp, cardboard shrouds and cap	

key features and benefits

Single part number	Pre-configured into one part number that is simple to specify and order, simplifying the design and execution of an originally complex bill of materials for a fast and repeatable integration
Reference architecture	Pre-configured design creates a physical map of the logical network layer and follows recommended installation practices to improve debug processes and increase system reliability and uptime
Integration ready	Shipped on shock-proof pallet complete with ramp, partially assembled and ready to install and plug-in active equipment
Expansion ready	Each configuration includes space for future expansion of server, storage, and related patching elements to allow for expanded network capacity without requiring addition to control room footprint
Bonded structure	Delivered in fully bonded cabinet complete with ground bar system and ESD port to help ensure system reliability and prevent equipment failure
Cable management	Fully integrates effective cable management for fiber optic and copper media, which is critical to maintain bandwidth through the network

applications

The pre-configured micro data center allows industrial system integrators to quickly and reliably incorporate best practices for deployment of active equipment while protecting the critical physical media that makes up the industrial network. The micro data center is supplied in an assembled form in which it is ready to accept the servers, switches and storage in its state-of-the-art cabinet housing.

The layout of the micro data center provides a physical map which corresponds to the logical network architectures for deployment of an industrial network, such as the Cisco and Rockwell Automation recommended Converged Plantwide EtherNet/IP architecture for manufacturing, including a demilitarized zone (DMZ) with firewall appliances and redundant compute and switching resources.

Industrial Automation Pre-Configured Micro Data Centers

24 RU micro data center:	CQSMDC48
42 RU micro data center:	CQSMDC79

24 RU MDC Add-On Kits

4 RU din-rail conversion kit:	IABDIN4
Grounding jumper kit:	RGEJ660PF
Fiber shelf:	FRME1U + 3 FAP
(LC connector):	FAP12WAQDLCZ
LC to LC patch cord:	FZE10-10M1 (1M)
TX6™ PLUS UTP Patch Cords:	
White:	UTPSP4Y
Black:	UTPSP4BLY
Blue:	UTPSP4BUY
Yellow:	UTPSP4YLY
Orange:	UTPSP4ORY

Network security devices:

RJ45

Blockout, Red: PSL-DCJB
RJ45

Lock-in, Red: PSL-DCPLX
Other colors available.

30 AMP POU: HB1B1L4BT10M1

42 RU MDC Add-On Kits

4 RU din-rail conversion kit:	IABDIN4
Grounding jumper kit:	RGEJ660PF
Fiber shelf:	FMT1A + CFAPPBL1A + 4
(LC connector):	FAP12WAQDLCZ
LC to LC patch cord:	FZE10-10M2 (2M)
Mini-Com® TX6™ PLUS UTP Jack Module:	CJ688TGBL-24
TX6™ PLUS UTP Patch Cords:	
White:	UTPSP5Y
Black:	UTPSP5BLY
Blue:	UTPSP5BUY
Yellow:	UTPSP5YLY
Orange:	UTPSP5ORY

Network security devices:

RJ45

Blockout, Red: PSL-DCJB
RJ45

Lock-in, Red: PSL-DCPLX
Other colors available.

30 AMP POU: VB0A1M2CN24E1
VB0B1L2BN30P1

Pre-Configured Micro Data Center for Industrial Network Deployment

A micro data center or (MDC) is a versatile combination of hardware, software and cabling that serves as an end-to-end networking hub, sized to serve the demands of a manufacturing environment. Panduit's pre-configured micro data center products are designed and validated to allow a physical layout that facilitates deployment of best-in-class logical network architectures.

48" Micro Data Center (Half Rack)

The medium micro data center is designed for active hardware enabling 30-50 devices within the manufacturing floor. It is designed to house 2 RU of enterprise switching, a 1 RU firewall, 4 RU of storage, 8 RU for servers, and 2 RU for optional UPS equipment.

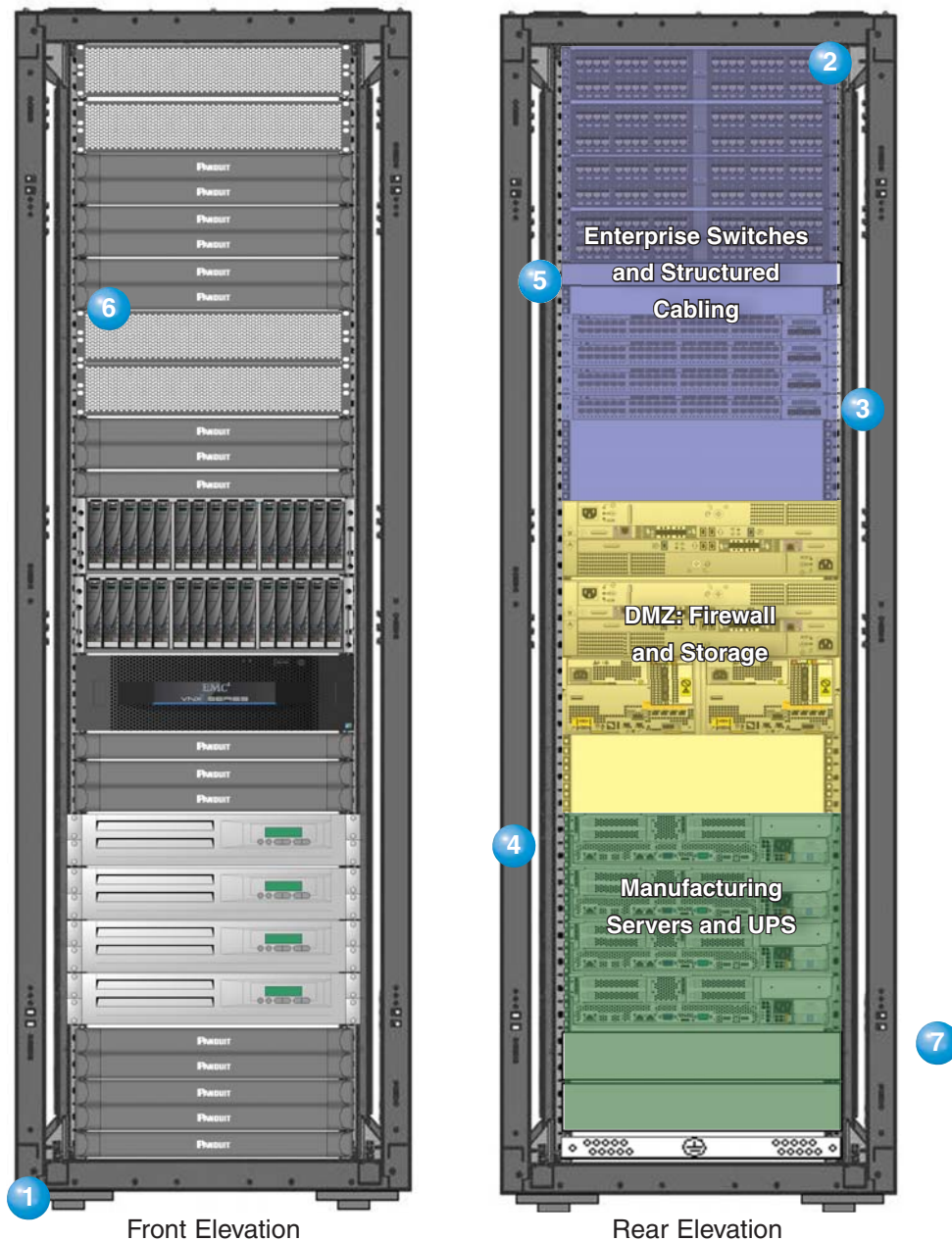


- 1 Delivered with casters installed and on shock-absorbing pallet with ramp for safe shipping and fast integration.
- 2 A 48-port patch panel is pre-installed into the equipment to enable structured cabling.
- 3 Multiple horizontal cable managers are pre-installed to route and protect data cabling.
- 4 Space included for rack-mount power outlet units (sold separately).
- 5 Space included for fiber optic cable patching using fiber shelf FRME1U + (3) FAPs.
- 6 Blanking panels included to optimize air flow within micro data center.
- 7 Delivered with box which includes all necessary patch cords, jacks, and other accessories needed to finish integration of popular micro data center configurations.

Pre-Configured Micro Data Center for Industrial Network Deployment

79" Micro Data Center (Full Rack)

The medium micro data center is designed for active hardware enabling up to 200 devices within the manufacturing floor. It is designed to house 4RU of enterprise switches, a 1 RU firewall, 12 RU of storage, 10 RU of servers, and 4 RU of UPS equipment.

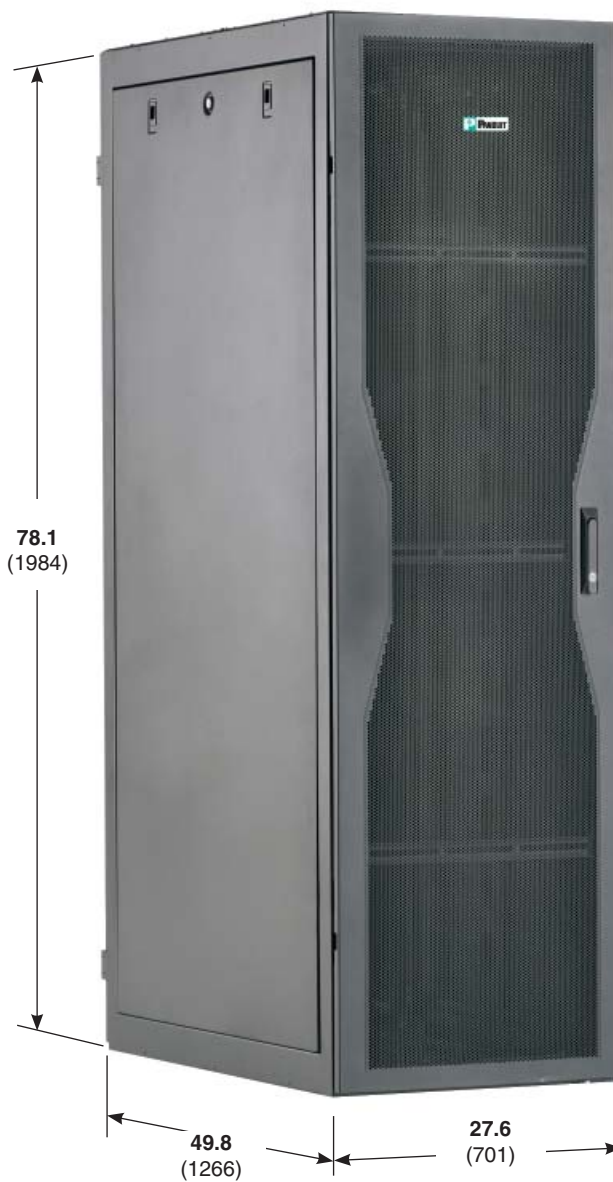


- 1 Delivered with casters installed and on shock-absorbing pallet with ramp for safe shipping and fast integration.
- 2 48-port patch panels are pre-installed into the equipment to enable structured cabling.
- 3 Vertical cable managers are pre-installed to route and protect data cabling.
- 4 Space included for a vertical power outlet unit with 10 receptacles (sold separately).
- 5 Space included for fiber optic cable patching using fiber shelf FMT1A + angled adapter patch panel CFAPPBL1A + (4) FAPs.
- 6 Blanking panels included to optimize air flow within micro data center.
- 7 Delivered with box which includes all necessary patch cords, jacks, and other accessories needed to finish integration of popular micro data center configurations.

Pre-Configured Micro Data Center for Industrial Network Deployment

24 RU 48" Micro Data Center

42 RU 79" Micro Data Center



Dimensions are in inches. (Dimensions in parentheses are metric).

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