TRIPP·LITE

Powering and Connecting Your World

Edge**Ready**™ Micro Data Centers

Preconfigured infrastructure for edge computing.

- Unlimited customization options
- 9U to 40U of usable space per rack
- 1.5 kVA to 10 kVA (N+N) backup power per rack
- External cooling options
- Remote monitoring and control

Why Edge Computing?

Smart sensors and devices in edge locations like factories, offices, homes, stores and warehouses have become smaller, less expensive and increasingly interconnected, creating an explosion of data. IDC predicts that 150 billion IoT devices will create 90 trillion gigabytes of data by 2025.

Organizations in every sector – including business, manufacturing, telecommunications, healthcare, financial services, retail, transportation, government, energy and education – are racing to analyze and capitalize on IoT data by implementing an edge computing strategy to supplement traditional core/cloud data centers. Gartner predicts that data processed outside core/cloud data centers will grow from 10% currently to 50% by 2022.

Edge computing solves three problems for these organizations:

NETWORK LATENCY causes poor performance or total failure for time-sensitive or interactive applications that require near-immediate response times. Edge computing requires fewer network hops to minimize latency.

BANDWIDTH COSTS increase significantly when continuously shuttling large volumes of data from edge to core/cloud and back again. Edge computing reduces bandwidth requirements.

SYSTEM AVAILABILITY is at risk when a distant core/cloud data center is required for data processing. If the Internet connection goes down, business grinds to a halt. Edge computing reduces reliance on that connection.

Why Micro Data Centers?

When an organization implements an edge computing strategy, it faces the question of how best to relocate the compute component. One option is building new data centers closer to edge locations, but this is extremely expensive and time-consuming. It also doesn't work well unless edge locations are clustered, as in a large city.

For many applications, preconfigured micro data centers that integrate a rack enclosure, backup power, remote management and cooling options are proving to be more feasible and cost-effective. They provide several benefits:

• Reduction in site-related costs

• Quicker deployment time

• Standardized configurations

Micro data centers conveniently and cost-effectively enable edge computing in locations where dedicated IT space is unavailable and impractical or cost-prohibitive to retrofit.

• Sites that require edge computing, like branch offices, banks, retail locations, cell towers and factories, often lack space and on-site IT staff, so micro data centers are designed to save space and require minimal IT support.

• Because of the critical applications served by edge computing, micro data centers also need to provide a level of system availability and security comparable to a core/cloud data center.

• The ability to customize and then standardize a solution is also key, as it makes the micro data center more cost-effective, more reliable and leads to quick, easy, repeatable deployments and service.

EdgeReady™ Micro Data Centers — The Edge Made Easy™

Tripp Lite's EdgeReady™ micro data centers are the industry's first and only micro data centers that ship three business days after the receipt of an order. Tripp Lite stocks more micro data center configurations than any other manufacturer, ships them faster and offers the broadest selection of product options for customization, fully assembled and tested. Base configurations are available for immediate order, or our solution team can customize every aspect to match specific applications.

Benefits of EdgeReady™ Micro Data Centers

- Validated configurations simplify ordering, prevent design errors and reduce field costs

- Assembled and tested units enable rapid deployment of turnkey micro data centers

- Experienced solution experts design, assemble and test configurations in a controlled environment

- Torqued fittings support safe and stable shipment and re-shipment

- Base configurations with unlimited options for customization provide dynamic form factors to satisfy the business and technology requirements of diverse edge deployment strategies
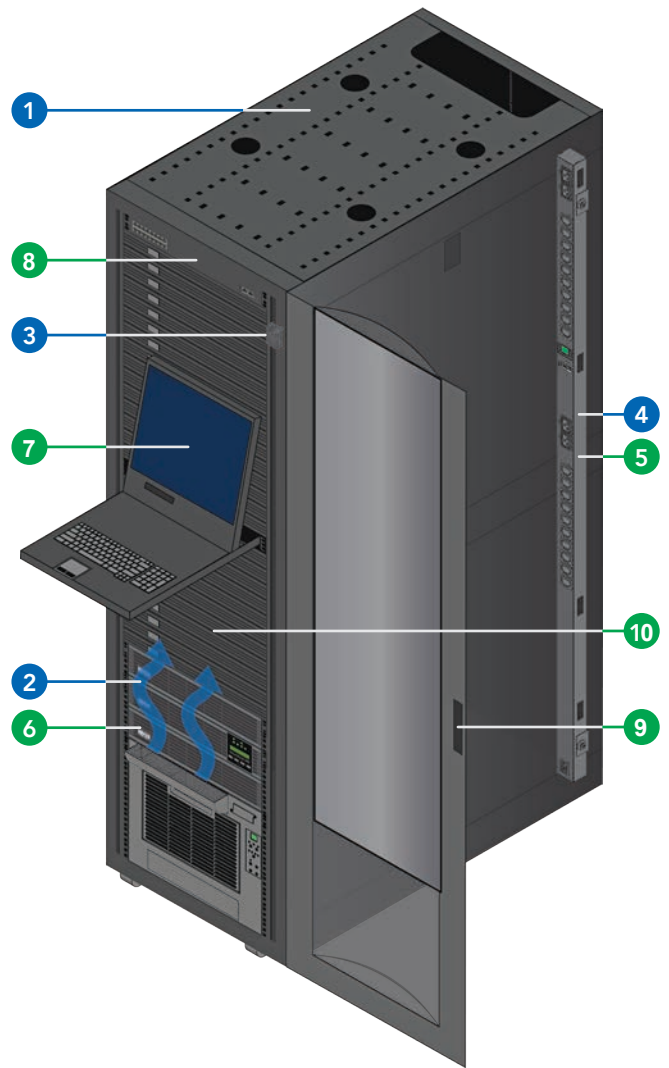
Visit www.tripplite.com/mdc to find your micro data center quickly and easily.
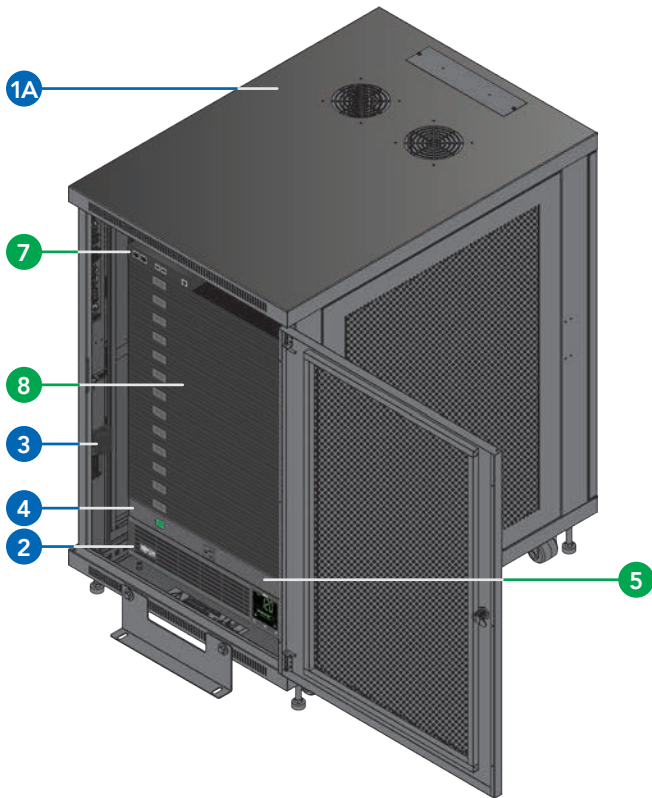
Full-Size Floor-Standing Micro Data Center

Typical Configurations

1 **42U RACK ENCLOSURE** provides locking steel cabinet, 3000 lb. total weight capacity and reinforced pallet for stable shipment and reshipment of assembled unit.

2 **6 KVA ON-LINE UPS SYSTEM** provides expandable battery backup, VFI operation, auto bypass, pure sine wave output and zero transfer time (N+N redundancy also available).
NETWORK MANAGEMENT CARD provides remote monitoring and control with automated threshold alerts.

3 **ENVIRONMENTAL SENSOR** enables remote temperature, humidity and digital input monitoring.

4 **METERED PDU** provides digital current metering and numerous outlets for IT equipment.

5 **SWITCHED PDU** replaces metered PDU to add network management, automated threshold alerts and remote individual outlet control; vertical (0U) installation.

6 **EXTERNAL BATTERY PACK** extends runtime from 11 min. with internal batteries to 51 min. at 50% load.

7 **CONSOLE KVM SWITCH** with 16 ports includes a folding LCD screen and built-in IP remote access.

8 **CONSOLE SERVER** provides 8 serial ports, 4 USB ports, dual Ethernet, embedded cryptography and built-in PSTN modem for fail-safe remote device access if the primary network connection is lost.

9 **DOOR SENSOR KIT** monitors front/rear doors for remote intrusion detection and alerts; replacement door handles provide combination locks in addition to keyed locks.

10 **AIRFLOW MANAGEMENT ACCESSORIES** (blanking panels shown) prevent hot air recirculation for efficient cooling.

ADDITIONAL OPTIONS NOT SHOWN: Horizontal, vertical and external cable managers; copper and/or fiber network cables and power cords for IT equipment; copper and/or fiber patch panels, including modular patch panels; additional environmental sensors to monitor temperature at multiple locations.

Visit www.tripplite.com/mdc to find your micro data center quickly and easily.

Compact Micro Data Center

Wall-Mount Micro Data Center

Hardware Included with Base Configurations

1A **24U COMPACT RACK ENCLOSURE** provides locking steel cabinet, 1000 lb. total weight capacity and reinforced pallet for stable shipment and reshipment of assembled unit.

1B **15U WALL-MOUNT RACK ENCLOSURE** provides locking steel cabinet and 200 lb. total weight capacity.

(Note: Wall-mount micro data centers only ship as kits because you must mount the cabinet to the wall before installing equipment.)

2 **LINE-INTERACTIVE UPS SYSTEM** (3 kVA in compact floor-standing cabinet; 1.5 kVA in wall-mount cabinet) provides battery backup, automatic voltage regulation and sine wave output. **NETWORK MANAGEMENT CARD** provides remote monitoring and control with automated threshold alerts.

3 **ENVIRONMENTAL SENSOR** enables remote temperature, humidity and digital input monitoring.

4 **METERED PDU** provides digital current metering and numerous outlets for IT equipment.
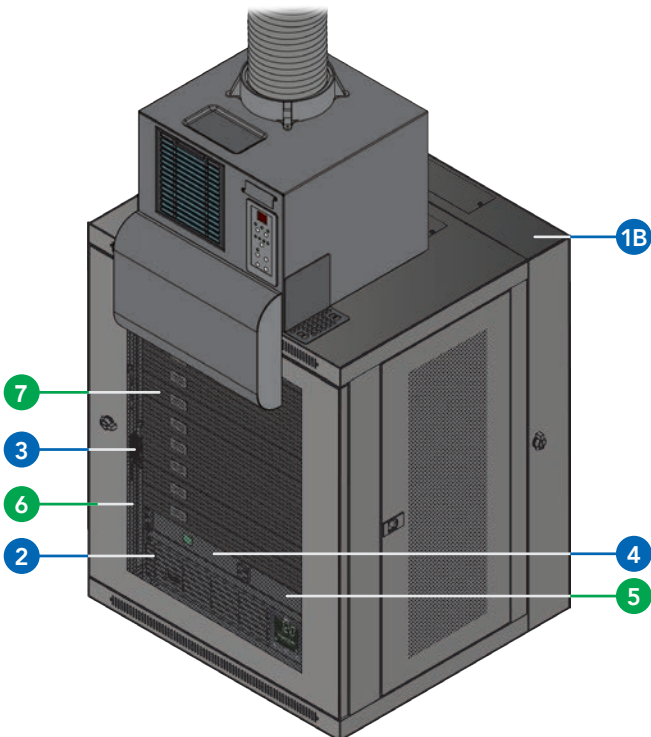
5 **SWITCHED PDU** replaces metered PDU to add network management, automated threshold alerts and remote individual outlet control.

6 **CONSOLE SERVER** provides serial and USB ports, dual Ethernet, embedded cryptography and PSTN modem support for fail-safe remote device access if the primary network connection is lost.

7 **AIRFLOW MANAGEMENT ACCESSORIES** (blanking panels shown) prevent hot air recirculation for efficient cooling.

ADDITIONAL OPTIONS NOT SHOWN: Horizontal, vertical and external cable managers; copper and/or fiber network cables and power cords for IT equipment; copper and/or fiber patch panels, including modular patch panels; additional environmental sensors to monitor temperature at multiple locations.

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Base Configurations

Voltage	Form Factor	Usable Rack Space	Output Power Capacity	UPS Type	Applications
230V	Wall-Mount	9U to 15U	1.5 kVA to 3 kVA	Line-Interactive	A B D E F G I
230V	Compact Floor-Standing	15U to 21U	1.5 kVA to 3 kVA	Line-Interactive	A B C E F G I
230V	Full-Size Floor-Standing	30U to 40U	3 kVA to 10 kVA (N+N)	On-Line	A B C E F G H I

Common Micro Data Center Applications					
A	Reduce Network Latency	D	Minimize Space Requirements	G	Protect Important Data
B	Simplify Configuration	E	Standardize Deployments	H	Protect Mission-Critical Data
C	Accelerate Installation	F	Support High Availability	I	Minimize Support Requirements

Wall-Mount Micro Data Centers (230V)

Model Summary	230V Wall-Mount • 9U • 1.5 kVA	230V Wall-Mount • 12U • 1.5 kVA
Model (Validated Kit)	MDK2W09UPX00000	MDK2W12UPX00000
Model (Assembled/Tested)	Not Available	Not Available
Output Power Capacity	1.5 kVA/1.35 kW/5.9A Max	1.5 kVA/1.35 kW/5.9A Max
Rack Space	12U Total; 9U Usable	15U Total; 12U Usable
Weight Capacity	90 kg Total; 47 kg Usable	90 kg Total; 36 kg Usable
Maximum Device Depth	419 mm	521 mm
Site Power Requirements	230V, 13/16A, 50/60 Hz	230V, 13/16A, 50/60 Hz
Site Outlet Required	BS 1363 (Standard) or CEE 7/7 "Schuko" (Optional)	BS 1363 (Standard) or CEE 7/7 "Schuko" (Optional)
UPS Type	Line-Interactive with Sine Wave Output	Line-Interactive with Sine Wave Output
Runtime (50%/100% Load)	14/4.9 min. (Expandable with 1.2 kW Limit)	14/4.9 min. (Expandable with 1.2 kW Limit)
High-Availability Features	Automatic Voltage Regulation (AVR); Battery Backup; Hot-Swappable Batteries	Automatic Voltage Regulation (AVR); Battery Backup; Hot-Swappable Batteries
PDU Type	Basic	Basic
Usable Outlets (UPS + PDU)	(19) C13, (2) C19	(19) C13, (2) C19
Dimensions (Assembled)	637 x 600 x 449 mm	770 x 600 x 549 mm
Weight (Assembled)	44 kg	55 kg
Limited Warranty	2 Years (Components Keep Longer Warranties); Extended Warranties Available	2 Years (Components Keep Longer Warranties); Extended Warranties Available
Included Hardware and Usable AC Outlets		
Rack Enclosure	SRW12U (Wall-Mount Rack)	SRW15US (Wall-Mount Rack)
UPS System	SMX1500XLRT2U with (7) C13; UK Input Cord with BS 1363 Plug (P056-006-10A)	SMX1500XLRT2U with (7) C13; UK Input Cord with BS 1363 Plug (P056-006-10A)
UPS Network Card	WEBCARDLX	WEBCARDLX
Environmental Sensor	E2MTHDI (Temperature/Humidity/Digital Inputs)	E2MTHDI (Temperature/Humidity/Digital Inputs)
Standard PDU	PDU12IEC with (12) C13, (2) C19; 1U; P047-004 Input Cord	PDU12IEC with (12) C13, (2) C19; 1U; P047-004 Input Cord
Optional Accessories, Sold Separately (Visit www.tripplite.com to see the full selection.)		
Switched PDU*	PDUMH15HVNET with (8) C13; 1U	PDUMH15HVNET with (8) C13; 1U
External Battery Packs for Extended Runtime (50%/100% Load)	59/23 min. with BP36V15-2U (Limit 1); 85/34 min. with BP36V27-2US; 177/73 min. with BP36V42-3U	59/23 min. with BP36V15-2U (Limit 1); 85/34 min. with BP36V27-2US; 177/73 min. with BP36V42-3U
Cooling	Not Available	Not Available
KVM Switch	B022-U08-IP	B022-U08-IP
Console Server	B093-004-2E4U	B093-004-2E4U
Door Monitoring Kit	SRSWITCH	SRSWITCH
Airflow Management	SR1UPANEL10 and/or SR1UBRUSH	SR1UPANEL10 and/or SR1UBRUSH
Cable Managers	40+ Horizontal, Vertical and External Cable Management Options at tripplite.com	
Power Cords	French/German UPS Input Cord with CEE 7/7 "Schuko" Plug (P054-006); Match Others to IT Equipment; 250+ Power Cord Options at tripplite.com	
Network Cables	Match to IT Equipment; 1,000+ Copper and Fiber Network Cable Options at tripplite.com	
Patch Panels	60+ Copper and Fiber Patch Panel Options at tripplite.com	
Additional Sensors	E2MT (Up to 3 Sensors Total per WEBCARDLX to Monitor Top/Middle/Bottom Temperature)	

* Replaces standard PDU.

Find it fast! Try our solution designer at **www.tripplite.com/mdc**

Floor-Standing Micro Data Centers (230V)

Model Summary	230V • 40U • 3 kVA	230V • 38U • 3 kVA (N+N)
Model (Validated Kit)	MDK2F40UPX00000	MDK2F38UPX00000
Model (Assembled/Tested)	MDA2F40UPX00000	MDA2F38UPX00000
Output Power Capacity	3 kVA/2.7 kW/11.7A Max	(2) 3 kVA/2.7 kW/11.7A Max (N+N Redundancy)
Rack Space	42U Total; 40U Usable	42U Total; 38U Usable
Weight Capacity	1360 kg Total; 1195 kg Usable	1360 kg Total; 1158 kg Usable
Maximum Device Depth	940 mm	940 mm
Site Power Requirements	230V, 13/16A, 50/60 Hz	(2) 230V, 13/16A, 50/60 Hz (2 Separate Circuits)
Site Outlet Required	BS 1363 (Standard) or CEE 7/7 "Schuko" (Optional)	(2) BS 1363 (Standard) or CEE 7/7 "Schuko" (Optional)
UPS Type	On-Line with Pure Sine Wave Output and Zero Transfer Time	On-Line with Pure Sine Wave Output and Zero Transfer Time
Runtime (50%/100% Load)	13.5/5 min. (Expandable)	13.5/5 min. (Expandable)
High-Availability Features	On-Line (VFI) Operation; Auto Bypass; Battery Backup; Hot-Swappable Batteries	N+N Redundancy; On-Line (VFI) Operation; Auto Bypass; Battery Backup; Hot-Swappable Batteries
PDU Type	Metered	Metered
Usable Outlets (UPS + PDU)	(40) C13, (7) C19	(80) C13, (14) C19
Dimensions (Assembled)	1994 x 600 x 1092 mm	1994 x 600 x 1092 mm
Weight (Assembled)	165 kg	202 kg
Limited Warranty	2 Years (Components Keep Longer Warranties); Extended Warranties Available	2 Years (Components Keep Longer Warranties); Extended Warranties Available
Included Hardware and Usable AC Outlets		
Rack Enclosure	SR42UB (Premium Rack; Standard Width/Depth)	SR42UB (Premium Rack; Standard Width/Depth)
UPS System	SUINT3000LCD2U with (8) C13, (1) C19; P052-008 BS 1363 Input Cord	(2) SUINT3000LCD2U with (16) C13, (2) C19; (2) P052-008 BS 1363 Input Cords
UPS Network Card	WEBCARDLX	(2) WEBCARDLX
Environmental Sensor	E2MTHDI (Temperature/Humidity/Digital Inputs)	E2MTHDI (Temperature/Humidity/Digital Inputs)
Standard PDU	PDUMV20HV with (32) C13, (6) C19; 0U; P036-006 Input Cord	(2) PDUMV20HV with (64) C13, (12) C19; 0U; (2) P036-006 Input Cords
Optional Accessories, Sold Separately (Visit www.tripplite.com to see the full selection.)		
Switched PDU*	PDUMV20HVNETLX with (20) C13, (4) C19; 0U	(2) PDUMV20HVNETLX with (40) C13, (8) C19; 0U
External Battery Packs for Extended Runtime (50%/100% Load)	40/16 min. with BP72V15-2U (Limit 1); 47/19 min. with BP72V18-2US; 72/30 min. with BP72V28RT-3U	40/16 min. with BP72V15-2U (Limit 1); 47/19 min. with BP72V18-2US; 72/30 min. with BP72V28RT-3U
Cooling	SRXCOOL12KB (3.5 kW; Portable; BS 1363) or SRXCOOL12K (3.5 kW; Portable; CEE 7/7 "Schuko")	SRXCOOL12KB (3.5 kW; Portable; BS 1363) or SRXCOOL12K (3.5 kW; Portable; CEE 7/7 "Schuko")
KVM Switch	B022-U16-IP; B020-U16-19-IP (With LCD Console)	B022-U16-IP; B020-U16-19-IP (With LCD Console)
Console Server	B093-008-2E4U-M	B093-008-2E4U-M
Door Monitoring Kit	SRSWITCH (Monitors Front/Rear Doors)	SRSWITCH (Monitors Front/Rear Doors)
Airflow Management	SR1UPANEL10 and/or SR1UBRUSH	SR1UPANEL10 and/or SR1UBRUSH
Cable Managers	40+ Horizontal, Vertical and External Cable Management Options at tripplite.com	
Power Cords	French/German UPS Input Cord(s) with CEE 7/7 "Schuko" Plug (P050-008); Match Others to IT Equipment; 250+ Power Cord Options at tripplite.com	
Network Cables	Match to IT Equipment; 1,000+ Copper and Fiber Network Cable Options at tripplite.com	
Patch Panels	60+ Copper and Fiber Patch Panel Options at tripplite.com	
Additional Sensors	E2MT (Up to 3 Sensors Total per WEBCARDLX to Monitor Top/Middle/Bottom Temperature)	

* Replaces standard PDU.

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Choose a Partner that Knows Critical Infrastructure

Micro data centers are smaller than traditional data centers, but they are just as critical to the success of your organization. When you are protecting critical systems, your choice of partner is critical too.

Tripp Lite offers you an attractive combination of reliability, value and service:

PROVEN PRODUCT RELIABILITY

Tested to strict quality, compatibility and safety standards, our products are also backed by years of field-proven reliability, protecting the world's largest companies and data centers from damage, downtime and data loss.

INDUSTRY-LEADING VALUE

Cost efficiency is a key element of every Tripp Lite product. Combining multiple products, our micro data centers leverage our unique manufacturing efficiencies to provide a superior balance of features, quality and competitive cost.

RESPONSIVE SERVICE FROM EXPERIENCED SOLUTION EXPERTS

Tripp Lite's application engineers have helped customers build and deploy thousands of critical solutions just like our micro data centers. We are available by phone, email or chat to provide quick answers and fully customized solutions. Our website also provides user-friendly product finders, detailed specifications and downloadable documentation around the clock.

> *"Tripp Lite's micro data centers were cost-effective, easy to install and provided the critical infrastructure we needed for our pumping operation servers. We haven't had a problem since installation more than two years ago, so we have a lot of confidence in Tripp Lite. We are currently working on a second phase with their team."*
> – IT Director, South American Energy Company

> *"As part of a recent acquisition, we needed to install servers and network video recorders at multiple branches in order to provide responsive service and meet regulatory requirements. Tripp Lite micro data centers provided high-availability power and cooling to protect our critical data. We were also able to install quickly in improvised spaces and manage remotely from a unified interface."*
> – Facilities Manager, Multinational Bank

Tripp Lite serves customers in 90+ countries worldwide:

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Manufacturing Excellence.

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