Choose a Partner That Knows Critical Infrastructure

Micro data centres include all the components of a traditional data centre in a much smaller footprint, and they are put 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 centres from downtime, data loss and disaster loss.

INDUSTRY-LEADING VALUE

Cost efficiency is a key element of every Tripp Lite product. Combining multiple products into one solution, our micro data centres leverage our unique manufacturing efficiencies to provide an outstanding balance of features, quality and competitive cost.

RESPONSIVE SERVICE FROM EXPERIENCED SOLUTION EXPERTS

Tripp Lite applications engineers have helped customers build and deploy thousands of custom solutions just like our micro data centres. We are available by phone, email or chat to provide quick answers and fully customised solutions.

Micro Data Centre Case Studies

High Availability for Branch Sites

Customer: Multinational bank with hundreds of branch locations and over 1,000 employees

Challenge: Recycled land and nearby constructed facilities require built-in power protection and cooling to support high availability for servers and ATMs.

Solution: Tripp Lite 40U micro data centre with a close-cooled active cooling unit

Result: Micro data centre located in the branch provides high availability solutions in areas not large enough for dedicated IT rooms. Security, cooling, power distribution and battery backup are all contained within one 40U rack.

Compact Footprint for a Space-Constrained Office

Customer: Separate financial services entities share office space. Although the two entities perform interrelated activities, they require complete separation of their data and other IT activities.

Challenge: The shared space has no room for each of the businesses to have its own data centre.

Solution: Each company installed a micro data centre from Tripp Lite to support its individual IT and communications equipment independently.

Result: The two businesses have the autonomy they require for network and telecom needs, while continuing to enjoy the efficiencies and synergies that come from sharing an office.

Comprehensive Management for Remote Sites

Customer: Large energy production company dedicated to the exploration, extraction, refining and distribution of petroleum, natural gas and derivative products.

Challenge: Each remote site within the vast network requires remote management of technology to support pumps and valves. Each location needs network connectivity to the main control centre.

Solution: Comprehensive micro data centre solution from Tripp Lite installed in several of the remote sites during the first phase supports the infrastructure behind the pump.

Result: The first phase has been running optimally for more than two years. The second phase is now in progress, with up to twice as many additional Tripp Lite micro data centres planned. The customer’s confidence in the Tripp Lite micro data centres has increased, with the second phase supporting a new oil and gas production system.

High Availability for Branch Sites

Customer: One of the world’s largest tree nut producers, with a major production facility in South America.

Challenge: A processing plant in the jungle required rapid installation and implementation of operations and communications services. Up-time for business continuity and secure management of the remote locations was necessary to ensure reporting were primary objectives for the project.

Solution: Tripp Lite micro data centres provide control and on-site services.

Result: The ease and affordability of installation of the infrastructure provided by Tripp Lite allowed rapid implementation, in spite of the distant location. Business management systems now are being controlled and reported on remotely with the support of the micro data centre solution.

Micro data centres from Tripp Lite are available in a wide range of configurations, from 12U to 40U of usable space per rack. Our complete range of micro data centre solutions includes preconfigured systems for edge computing. We are available by phone, email or chat to provide quick answers and fully customised solutions.

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Why Edge Computing?

Smart sensors and devices in edge locations—factories, offices, homes, stores and warehouses—have become smarter, less expensive and increasingly interconnected, creating an explosion of data. IDC predicts that 150 billion IoT devices will create 11.1 zettabytes of data by 2025.

Organisations in every sector—including business, manufacturing, telecommunications, healthcare, financial services, retail, transportation, government, energy and education—are rushing to analyse and capitalize on IoT data to realise new business opportunities and gain a competitive edge. Smart sensors and devices in edge locations—factories, offices, homes, stores and warehouses—have become smarter, less expensive and increasingly interconnected, creating an explosion of data. IDC predicts that 150 billion IoT devices will create 11.1 zettabytes of data by 2025.

When an organisation implements an edge computing strategy, it has to answer the question of how best to relocate the computing, storage, networking and data management required by these devices. It needs not only to move the compute component to edge locations, but also to build new edge data centres to house the IT equipment. Instead of relying on the core cloud data centre, an organisation that implements an edge computing strategy can rely on smaller, more efficient data centres in edge locations to provide compute, storage, networking and data management services. This approach expands the organisation’s reach while reducing costs and improving performance, reliability, security and availability. Edge computing reduces reliance on the core cloud data centre.

Why Micro Data Centres?

When an organisation implements an edge computing strategy, it has to answer the question of how best to relocate the computing component. One option is building new data centres closer to edge locations, but this is extremely expensive and time-consuming. It also doesn’t work well unless edge computing in locations where dedicated IT space is unavailable and impractical or cost-prohibitive to retrofit.

Micro data centres conveniently and cost-effectively enable compute, storage, networking and data management services in a controlled environment. They support the same business and technology requirements as on-site IT data centres but with lower total cost of ownership (TCO) and faster deployment times.

Micro Data Centres for Edge Computing

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

1. 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 centres are designed to save space and require minimal IT support.

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

3. The ability to customize and then standardise a solution is critical, as the compute component in edge locations is often unreliable and made up of different components.

The results are repeatable deployments and services. The ability to customize and then standardise a solution is critical, as the compute component in edge locations is often unreliable and made up of different components.

EdgeReady™ Micro Data Centres — The Edge Made Easy™

- Validated configurations simplify ordering, prevent design errors and reduce field costs.
- Assembled and tested units enable rapid deployment of turnkey IT infrastructure.
- Experienced solution experts design, assemble and test configurations in a controlled environment.
- Stock configurations with unlimited options for customisation provide dynamic, flexible factors to satisfy the business and technology requirements of diverse edge deployment strategies.
- 10% currently to 50% by 2022.

Why Micro Data Centres for Edge Computing?

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- The ability to customize and then standardise a solution is critical, as the compute component in edge locations is often unreliable and made up of different components.

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

Full-Size Floor-Standing Micro Data Centre

Typical Configuration

1. 42U RACK ENCLOSURE provides locking steel cabinet and 1920 kg total weight capacity. Blank end panels block unused rack spaces to prevent warm exhaust recirculation and improve cooling.
2. ONLINE UPS SYSTEM provides excellent battery backup, VR operation, auto-bypass, pure sine wave output and auto-transfer time. The battery redundancy is also available.
3. NETWORK MANAGEMENT CARD provides remote monitoring and control with automated threshold alerts.
4. ENVIRONMENTAL SENSOR enables remote temperature, humidity and digital input monitoring.
5. METERED PDU provides digital current metering and numerous outlets for IT equipment.
6. SWITCHED PDU replaces network management, automated threshold alerts and remote individual circuit control with vertical Installation.
7. EXTERNAL BATTERY PACK extends runtime.
8. AIR CONDITIONING UNIT provides efficient, low-cost, data center cooling.
9. CONSOLID KVM SWITCH includes a built-in LCD screen and built-in IP remote access.
10. CONSOLID SERVER provides small parts, USB ports, dual Ethernet, embedded cryptography and PCIe slots for fault-tolerant data access. This primary network connection is hot.
11. DOOR SENSOR KIT monitors front/door access for remote intrusion detection and alerts.

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Additional Options Not Shown

Horizontal, vertical and external cable managers; copper and/or fibre network cables and power cords for IT equipment; copper and fibre drop cables and patch panels; cable management accessories; additional environmental sensors to monitor temperature at multiple locations in the rack enclosure.
Why Micro Data Centres?

When an organisation implements an edge computing strategy, it has to the question of how best to relocate the compute component. One option is building new data centres in edge locations. Edge computing solves three problems for these organisations:

- **NETWORK LATCHES** cause poor performance or total failure for time-sensitive or interactive applications that require near-instantaneous response times. Edge computing requires fewer network hops to minimise 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 centre is required for data processing. If the Internet connection goes down, business grinds to a halt. Edge computing reduces reliance on that connection.

EdgeReady™ Micro Data Centres — The Edge Made Easy™

- Validated configurations simplify ordering, prevent design errors and reduce field costs.
- Assembled and tested with scalable deployment of portable micro data centres.
- Experienced solution experts design, assemble and test configurations.
- Stock configurations with unlimited options for customisation provide a level of system availability and security comparable to a core/cloud data centre.
- The ability to customise and then standardise a solution is key, as it makes the micro data centre more cost-effective, more reliable and leads to quick, easy, repeatable deployments and services.

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

Why Edge Computing?

- Smart devices and data in edge locations for factories, offices, homes, stores and warehouses have become more popular, less expensive and increasingly interconnected, creating an explosion of data. IDC predicts that 150 billion IoT devices will create 19 exabytes of data by 2025.

- Organisations in every sector – including business, manufacturing, telecommunications, healthcare, financial services, retail, transportation, government, energy and education – are racing to analyse and capitalise on IoT data.

- Edge computing reduces reliance on that connection.

- Decreased bandwidth requirements.

- Near-immediate response times.

- Reduced field costs.

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

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- Experienced solution experts design, assemble and test configurations.

Introducing EdgeReady™ Micro Data Centres

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Full-Size Floor-Standing Micro Data Centre

**Typical Configuration**

1. **42U RACK ENCLOSURE** provides locking steel cabinet and 1360 kg total weight capacity. Blanking panels block unused rack spaces to prevent warm exhaust air recirculation for efficient cooling.

2. **ONLINE UPS SYSTEM** provides optional battery backup, VR operation, auto-bypass, pure sine wave output and zero transfer time. UPS power redundancy is also available.

3. **NETWORK MANAGEMENT CARD** provides remote monitoring and control with automated threshold alerts.

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

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

6. **SWITCHED PDU** replaces metered PDU to add network management, automated threshold alerts and remote individual output control, vertical or horizontal installation.

7. **EXTERNAL BATTERY PACK** extends runtime.

8. **AIR CONDITIONING UNIT** provides efficient air-cooled or water-cooled cooling.

9. **CONSULE KVM SWITCH** includes a built-in LCD screen and built-in IP remote access.

10. **CONSULE SERVER** provides small port, USB ports, dual Ethernet, embedded cryptography and PCI-DSS ready for fail-safe remote device access. The primary network connection is hot.

11. **DOOR SENSOR KIT** monitors front/rear doors for remote intrusion detection and alerts.

**ADDITIONAL OPTIONS NOT SHOWN** Horizontal, vertical and external cable managers, copper and fibre network cables and power cords for IT equipment, copper and fibre patch panels, including modular patch panels, flow management accessories, additional environmental sensors to monitor temperature at multiple locations in the risk enclosure.
INTRODUCTION

Why Edge Computing?
Smart sensors and devices in edge locations for factories, offices, homes, stores and warehouses have become more of a reality as they become less expensive and increasingly interconnected, creating an explosion of data. IDC predicts that 150 billion IoT devices will generate 18 exabytes of data by 2025.

Organisations in every sector – including manufacturing, telecommunications, healthcare, financial services, retail, transportation, government, energy and education – are moving to analyse and capitalise on IoT data with near-immediate response times. Edge computing requires fewer network hops to minimise latency.

Why Micro Data Centres?
When an organisation implements an edge computing strategy, it has the question of how best to allocate the compute component. One option is building new data centres closer to edge locations, but this is an expensive and time-consuming task. Data centres are built to serve edge locations are, in a large city, typically in a data centre.

For many applications, preconfigured micro data centres that integrate a rack enclosure, backup power, remote management and cooling options are proving to be more cost-effective. They provide several benefits:
• Reduction in site-related costs
• Quicker deployment time
• Standardised configurations

EdgeReady™ Micro Data Centres — The Edge Made Easy™
Micro data centres conveniently and cost-effectively enable edge computing in locations where dedicated IT space is unavailable or impractical or cost-prohibitive to retrofit. The ability to customise and then standardise a solution is also key, as it makes the micro data centre more cost-effective, more reliable and leads to quick, easy, repeatable deployments and service.

Edge computing solves these problems for these organisations:
• NETWORK LATENCY causes poor performance or total failure for time-sensitive or interactive applications that require immediate response times. Edge computing requires fewer network hops to minimise latency.
• BANDWIDTH COSTS increase significantly when continuously shuffling large volumes of data from edge to core/cloud and back again. Edge computing reduces bandwidth requirements.
• SYSTEM AVAILABILITY is at risk when a site’s core/cloud data centre is required for data processing. If the Internet connection goes down, business grinds to a halt. Edge computing reduces latency on that connection.

Full-Size Floor-Standing Micro Data Centre
Typical Configuration
1. 42U RACK ENCLOSURE provides locking metal cabinet and 1500 kg total weight capacity. Blank panel blocks unused rack spaces to prevent warm exhaust air recirculation for efficient cooling.
2. ONLINE UPS SYSTEM provides quick restore capability backup. VR operation, auto-biased, pure sine wave output and auto transfer time. The fully power redundant system is also available. NETWORK MANAGEMENT CARD provides remote monitoring and control with automated threshold alerts.
3. ENVIRONMENTAL SENSORS enable remote temperature, humidity and digital input monitoring.
4. METERED PDU provides digital current metering and numerous outlets for IT equipment.
5. SWITCHED PDU replaces network management, automated threshold alerts and remote individual outlet control, vertical (0U) installation.
6. EXTERNAL BATTERY PACK extends runtime.
7. AIR CONDITIONING UNIT provides efficient close-coupled active cooling.
8. CONSOLE KVM SWITCH includes a built-in LCD screen and built-in IP remote access.
9. CONSOLE SERVER provides serial ports, USB ports, dual Ethernet, embedded cryptography and PC/Windows for flawless remote device access. The primary network connection is kept.
10. DOOR SENSOR KIT monitors front/lower door for remote intrusion detection and alerts.

ADDITIONAL OPTIONS NOT SHOWN: Horizontal, vertical and external cable managers; copper and/or fibre network cables and power cords for IT equipment; copper and/or fibre patch panels; in-building patch panels; airflow management accessories; additional environmental sensors to monitor temperature at multiple locations in the air enclosures.

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Micro Data Centre Case Studies

High Availability for Branch Sites
Customer: Multinational bank with hundreds of branch locations and over 1000 employees.
Challenge: Renovated and newly constructed branches require both power protection and cooling to support uptime for key applications.
Solution: Tripp Lite 42U micro data centres with close-coupled active cooling units.
Result: Micro data centres stocked in the bank’s warehouses provide high reliability solutions in areas not large enough for dedicated IT rooms. Security, cooling, power distribution and backup are all contained within one 42U rack.

Compact Footprint for a Space-Constrained Office
Customer: Corporate company with 25K employees.
Challenge: The shared office has no room for each of the businesses to have its own data centre.
Solution: Each company installed a micro data centre from Tripp Lite to support its individual IT and communications services. Uptime for business continuity and remote management with the means to receive dedicated IT rooms. Security, cooling, power distribution and backup all contained within one 42U rack.

Comprehensive Management for Remote Sites
Customer: Financial services entity.
Challenge: Each remote site within the vast network requires remote management of technology to support pumps for oil and gas exploration and extraction. Each location needs network connectivity to the main control centre.
Solution: Comprehensive micro data centre solution from Tripp Lite installed in several of the remote sites during the first phase supports the infrastructure behind the pumps.
Result: The first phase has been running flawlessly for more than two years. The second phase is now in progress, with up to twice as many additional Tripp Lite micro data centres planned. The customer’s confidence in the Tripp Lite micro data centres is such that the company is currently working on a second phase with their team.

Result:

Ease of Implementation for Distant Location
Customer: Small oil company.
Challenge: A processing plant in the jungle required rapid installation and implementation of operations and communications services. Uptime for business continuity and remote management with the means to receive reporting were primary objectives for the project.
Solution: Tripp Lite micro data centres provide control and communication services.
Result: The ease and speed of installation of the infrastructure provided by Tripp Lite allowed rapid implementation, in spite of the distant location. Business management systems now are being controlled and reported on remotely with the support of the micro data centre solution.

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Proven Product Reliability
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Industry-Leading Value
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Micro Data Centre Case Studies

Customer: Banking / Financial Services
Challenge: Overcrowded and inadequately-constructed branch locations require built-in protection and cooling to support high availability for servers and ATMs.
Solution: Tripp Lite’s 42U micro data centre with a close-coupled active cooling unit provided high-availability solutions in areas too large enough for dedicated IT rooms. Security, cooling, power distribution and battery backup are all contained within one 42U rack.
Compact Footprint for a Space-Constrained Office
Customer: Commercial
Challenge: Each location needs network connectivity to the main control centre.
Solution: Tripp Lite’s micro data centres were designed with the intention of being put in centres. We are available by phone, email or chat to provide quick answers and fully customised solutions.

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EdgeReady Micro Data Centres
Preconfigured infrastructure for edge computing.
• Unlimited customisation options
• 12U to 40U of usable space per rack
• 1.5kW to 10kW (N+N) backup power per rack
• Close-coupled active cooling
• Remote monitoring and control

Case Studies

Banking / Financial Services

Customer: Commercial
Challenge: Each location needs network connectivity to the main control centre.
Solution: Tripp Lite micro data centres were designed with the intention of being put in centres.

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Edge Infrastructure
Powering and Connecting Your World

Preconfigured infrastructure for edge computing.

• Unlimited customisation options
• 12U to 40U of usable space per rack
• 1.5kW to 10kW (N+N) backup power per rack
• Close-coupled active cooling
• Remote monitoring and control

High Availability for Branch Sites
Customer: Multinational bank with hundreds of branch locations and over 1000 employees
Challenge: Recreated and newly constructed branch locations require built-in protection and cooling to support high availability for servers and ATMs.
Solution: Tripp Lite 42U micro data centres with a close-coupled active cooling unit.

Result: Micro data centre solutions in the branches provide high availability solutions in areas too large enough for dedicated IT rooms. Security, cooling, power distribution and battery backup are all contained within one 42U rack.

Compact Footprint for a Space-Constrained Office
Customer: Commercial
Challenge: Each location needs network connectivity to the main control centre.
Solution: Tripp Lite micro data centre solution from Tripp Lite to support its individual IT and communications equipment independently.

Result: The two businesses have the autonomy they require for network and telecom needs, while continuing to enjoy the efficiencies and synergies that come from sharing an office.

Comprehensive Management for Remote Sites
Customer: Large energy producing company dedicated to the exploration, extraction, refining and distribution of petroleum, natural gas and derivative products
Challenge: Each remote site within the vast network requires remote monitoring of technology to support pump oil and gas exploration and extraction. Each location needs network connectivity to the main control centre.
Solution: Comprehensive micro data centre solution from Tripp Lite in several of the remote sites during the first phase supports the infrastructure behind the pump.

Result: The first phase has been running optimally for more than two years. The second phase is now in progress, with up to twice as many additional Tripp Lite micro data centres planned. The customer’s confidence in the Tripp Lite solution is based on the optimal results in the first phase, along with overall ease of implementation and balanced costs.

Ease of Implementation for Distant Location
Customer: One of the world’s largest tree nut producers, with a major production facility in South America
Challenge: A processing plant in the jungle required rapid installation and implementation of operations and communications services. Uptime for business continuity and service management with the means to receive communications services. Uptime for business continuity and remote management with the means to receive communications services.
Solution: The micro data centre solutions were preconfigured infrastructure for edge computing.

Result: The ease and reliability of installation of the infrastructure provided by Tripp Lite allowed rapid implementation, in spite of the distant location. Business management systems now are being controlled and reported on remotely.

Case Studies

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Factory Floor

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Visit tripplite.com/edu to find your micro data centre quickly and easily.