There are many areas of concern when it comes to Mission-Critical Edge applications. To justify the area for Edge applications and all the essential components within a minimal footprint while potentially compromising your most day-to-day concerns for edge applications inlude:

- Room Renovations. in some cases taking longer than twenty (20) days to build a 10 to 20 sqm footprint

- Integrating design activity, Time-consuming advances step-wise wastage of material

- Power distribution, separate UPS + Battery, Tedious power management

- Clenliness and noise, aesthetics balancing operations in an organised DC, Fan noise exceeding 65dB levels

- Monitoring, High CAPEX for integration, Complex process for integrating all systems

Enterprises in today's dynamic era need to address these concerns with a secure, streamlined solution in a well-planned ecosystem followed by easy upkeep, all in a low carbon, compact footprint.

There is a need for a turnkey infrastructure for edge applications that include:

- Standardized configurations that are tailored to the application, factory integrated, validated and tested

- High availability with network independant remote management and extensive emergency service coverage

- Secure physical and remote access with on-site intrusion detection and user rights-driven remote management

Introducing SRA Solutions / Vertiv co Micro DC

A pre-configured, self contained SCEC solution that offers the efficiency, economy, interoperability, security and control to implement an exceptional infrastructure strategy.
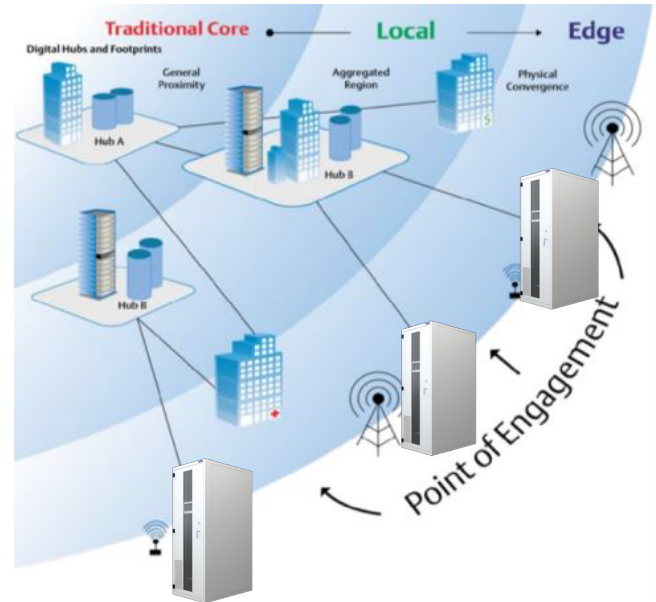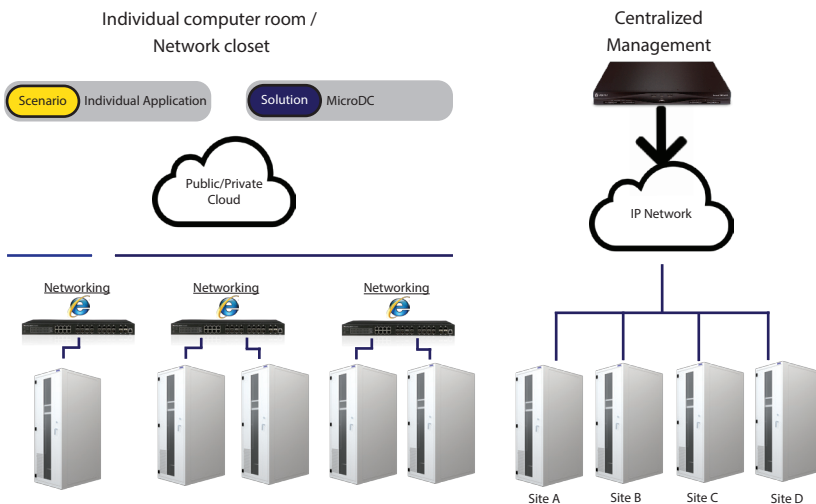
Economical - Reduces implementation costs compared to conventional Solutions

Simplified - Maximize use of existing infrastructure and gets up-and-running in a matter of weeks

Controllable - Enforce add / change policies, speeds IT administration request response times significantly

Features

High Security Infrastructure

Fast deployment

All-in-one design and easy to use

No dedicated IT room required

Dust protection and noise insulation

Built-in high efficiency UPS and Airconditioning

Supplied with power distribution and security control

Integrated power management

Large 9-inch LCD touch screen for integrated monitoring

Intelligent Infrastructure

Advanced monitoring solution to all the MicroDC
using RDU-M

Individual computer room /
Network closet

Centralized
Management

Scenario | Individual Application

Solution | MicroDC

Public/Private
Cloud

IP Network

Networking   Networking   Networking

Site A   Site B   Site C   Site D

Traditional Core → Local → Edge

Digital Hubs and Footprints

General
Proximity

Aggregated
Region

Physical
Convergence

Hub A

Hub B

Hub B

Point of Engagement

Distinctive Benefits in small sizes

Components work as an integrated force

Fully protected from dust, moisture, and rodents

Emergency temperature control cooling

Integral UPS & back-up autonomy

Standard Class C lighting protection

Integrated fire suppression system

Efficient I & C

Rapid deployment with single day boot-up

Factory-assembled and pre-loaded

Doesn't require outdoor units to be installed
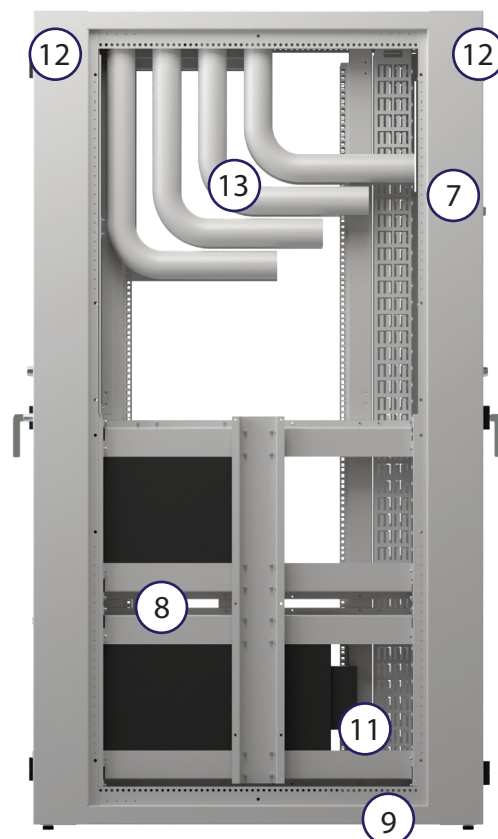
Fits in your existing whitespace

Savings on Electricity Bills

Equipped with a variable frequency compressor for capacity modulation at part loads

Pre-defined path for cold air and hot air circulation

Annualized PUE < 1.5

Think Smart, Act Smart

9-inch touch screen + remote WEB access

Remote door access control

Centralized control for 256 units

SMS & Emails can be registered for notifications

The door & in-cabinet lights operate intelligently

Intelligent monitoring & control with RDU-M

Key Components

1 Power Management Unit with UPS bypass
Outlet switched power distribution unit (PDU) distribute power to IT equipment and turn on emergency fans during power outages.

2 9" touch panel display for local monitoring
User-friendly display provides easy access to information for power, thermal management, environments and security.

3 Blanking Panels
Tool-less solid blanking panels that improve airflow and apperance of the rack in seconds.

4 Temperature sensor (front & rear)
Temperature sensors at front (cold aisle) and at rear (hot aisle) report critical environmental information and alarm users if exceeding configurable threshold.

5 Air-conditioning unit
Seperate cold air and hot air channels to prevent hot exhaust air from circulating to the front of the cabinet

6 Emergency fans (front & rear)
Two emergency fans automatically run during power outages ensuring continuous cooling capability.

7 Rack PDUs (2x units)
Providing at-the-rack access to servers, making software upgrades troubleshooting and system monitoring convenient and less time consuming.

8 UPS and battery
5kVA On-line double conversion UPS and battery cabinet ensures clean power feeding to critical IT equipment. The system also provides backup power to emergency fans during power outages.

9 Water leakage detection
water leak sensor provides additional security for critical IT equiptment.

10 LED lighting
Low power consumption LED lights that automatically light up when door is open.

11 Web/SNMP management card
Providing secure and remote out-of-band connections to the servers and serial ports. This unified approach enables IT administrators a faster method to diagnose, configure or restore equipment to meet SLAs and minimize downtime.

12 Door sensor (front & rear)
The door access sensors report alarms on unauthorised access.

13 SCEC endorsed cable entry
Baffle tube cable entry pathways provide secure protection for incoming communications cabling.

14 SCEC endorsed Class C locking
Built secure, Class C locking meets current SCEC endorsement and provides another layer of security to the MicroDC.

Technical Specification

Cabinet Size	2184 x 800 x 1200 (mm)
Usable RU Space	39RU
Outdoor unit for air conditioner	Yes (split)
Colour	Mannex White
Display Panel	9" touch panel LCD
Display Languages	English / Chinese
UPS Capacity	5kVA / 5kW
UPS backup time	10 minutes @ 3kW
System input requirement	50A, Single phase 220/230/240 V
System frequency	50Hz or 60Hz
Power distribution units	32A input, 18 x C13 + 6 x C19 outlets, 2 pcs
Lightning protection device	Level 3, 20KA
UPS Maintenance bypass	Included
Cooling capacity	1,800W - 3500W, Variable speed
Refrigerant	R410A
Emergency Fan	Two, one at front bottom and one at rear top
System management (UPS/Cooling/PDU)	Yes
Temperature sensor	2
Water leak detection	1 piece, 5 metres long
Door access sensor	2