

MICRO DATA CENTER INDOOR SOLUTIONS

Brochure

ArcTiv Technologies

Data Center and Edge-Computing Infrastructure Solutions

YOUR DATA CENTER & IT SOLUTIONS PARTNER



ArcTiv Technologies is a USA-based data center & IT solutions provider delivering high-performance products to **Power, Protect, Cool** and **Connect** your critical network infrastructure.

Our global application experts develop and deliver turnkey IT solutions, ensuring optimal system performance and reducing your supply chain complexity.

Find out more about our products and consulting services by contacting your local representative or visiting our website at:

www.arctiv-tech.com

Key Applications and Industries Served

White Space Solutions







Data Center

Colocation

Server Room

Edge-Computing Solutions for the Office







High-Rise Buildings

Conference Rooms

Healthcare

Edge-Computing Solutions in Retail







Convenience Stores

Shopping Centers

Restaurants / Café

Edge-Computing Solutions in Manufacturing







Factory Automation

Warehouse & Logistics

Airports

Product Line Overview





Edge-Computing Application Overview

Edge-Computing in the Office



Micro Data Center Advantages

- ✓ No dedicated IT room (< CAPEX)</p>
- ✓ Lower power & cooling costs (< OPEX)</p>
- ✓ Can run during off-business hours
- ✓ Remote management & alarms
- ✓ Internal fire protection
- ✓ Greater equipment reliability
- ✓ Electronic access control
- ✓ Low-noise (with external condenser)

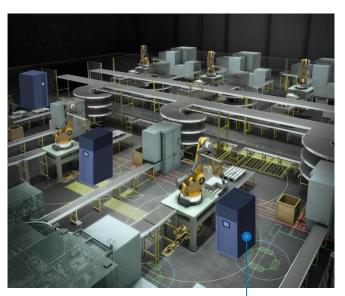
Edge-Computing in Retail



Micro Data Center Advantages

- ✓ No dedicated IT room (< CAPEX)</p>
- ✓ Lower power & cooling costs (< OPEX)</p>
- ✓ Protects against temperature, humidity and dust (IP5X)
- ✓ Can run during off-business hours
- ✓ Remote management & alarms
- ✓ Internal fire protection
- ✓ Greater equipment reliability
- ✓ Electronic access control & video camera monitoring

Edge-Computing in Manufacturing



Micro Data Center Advantages

- ✓ Lower cabling costs (< CAPEX)</p>
- ✓ Lower power & cooling costs (< OPEX)</p>
- ✓ Lower equipment latency
- ✓ Protects against temperature, humidity and dust (IP5X)
- ✓ Remote management & alarms
- ✓ No external piping required (with integrated cooling)
- ✓ Greater equipment reliability
- ✓ Electronic access control & video camera monitoring



Single Rack, Indoor System Overview

All-in-One Power, Protect, Cool and Connect Solution for Edge-Computing Applications

Power



Rack-Mount UPS, Battery & Power Distribution Module (PDM)

Power Distribution Unit (PDU)

Protect



Rack Fire Suppression

Key Features:

- ✓ Rack-mount UPS (N+1 and 2N options)
- ✓ External batteries for up to 1 hour back-up
- ✓ Surge and lightning protection
- ✓ Maintenance bypass
- ✓ Basic or managed (switched) PDU's
- ✓ Remote device reboot (via managed PDU)

Key Features:

- ✓ IP4X & IP5X for indoor applications
- √ 600 & 800mmW with cable management
- ✓ Magnetic locking system
- ✓ Overtemperature door release
- ✓ 3-in-1 access control (fingerprint, RFID, PIN)
- ✓ Rackmount automatic fire suppression
- ✓ IP camera and NVR

Cool



Integrated Cooling Unit (Top-Mount)

Rack-Mount Blower With External Condenser

Connect



Monitoring System with Remote Management

Key Features:

- ✓ DX-type cooling
- ✓ User adjustable internal temperature setting
- ✓ Humidity control (up to 95% non-condensing)
- ✓ Environmentally friendly agent (R410A)
- ✓ Easy set-up (integrated unit)
- ✓ Low-noise (split unit)
- ✓ High-capacity (side-mount unit)

Key Features:

- ✓ 10" HMI with built-in network controller
- ✓ Temperature, humidity, smoke, water & door sensors
- ✓ Real-time power, cooling & environmental monitoring
- ✓ Web access and SMS alarms
- ✓ Password protected



Single Rack Cooling System Overview

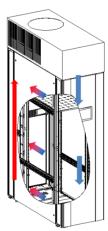
Full Range of Cooling Configurations to Support Your Edge-Computing Application

Integrated Cooling System





Top-Mount Cooling Unit with Integrated Condenser (All-in-one)



- ✓ Ideal for medium power applications (up to 5.5kW)
- ✓ Easiest to install
- ✓ High external temperature and humidity ratings
- ✓ Up to IP5X rating
- ✓ Lowest total cost (incl. installation)
- ✓ Automatic overtemperature door release

Split Cooling System

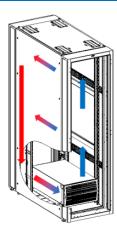




Rack-Mount Blower



External Condenser



- ✓ Ideal for medium-power applications (up to 5.0kW)
- ✓ Lowest noise & heat dissipation (ideal for offices)
- ✓ High external temperature and humidity ratings
- ✓ Up to IP5X rating
- ✓ Greater RMU capacity
- ✓ Automatic overtemperature door release

In-Row Cooling System





External Condenser



Side-Mount Blower

- ✓ Ideal for high-power applications (up to 7.6kW)
- ✓ Greatest RMU capacity
- ✓ High external temperature and humidity ratings
- ✓ Up to IP5X rating
- ✓ Automatic overtemperature door release

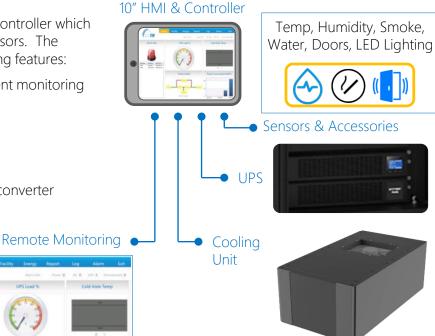


Remote and Emergency Operation

Remote Operation

Each MDC includes an all-in-one HMI and controller which directly controls the cooling, power and sensors. The MDC is remotely accessible with the following features:

- Real-time power, cooling and environment monitoring
- System configuration
- Alarm settings & event logs
- Automatic emails during alarm events
- Electronic door release
- Password protection
- Modbus (standard) with optional SNMP converter







Real-Time Monitoring

Alarms & System Configuration

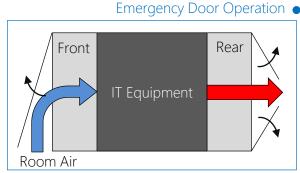
Emergency Over-Temperature Operation

In case of an over-temperature, the electronic doors can automatically release to allow external air to enter the enclosure.



Dual-Type Door with Glass Inlet

Upgradeable front door with glass inlet and vented base. In case of overtemperature, the glass inlet will release while the vented door remains closed.







Technical Specifications







Cooling Type	Integrated Cooling Top Mount, DX-Type	Split Cooling Rack Mount, DX-Type	In-Row Cooling Side-Mount, DX-Type
Cooling Capacity	2.5kW, 3.5kW, 5.5kW	3.9kW, 5.0kW	5.6kW, 7.6kW
Cooling Agent		R410A	
IP Rating		IP4X, IP5X	
Total RMU	24, 33	42	42
Available RMU (excl. battery)	19, 28	32	37
Rack Heights	1600mm, 2100mm	2100mm	2100mm
Rack Widths	600mm, 800mm	600mm, 800mm	900mm, 1100mm
Rack Depths	1100mm, 1200mm	1100mm, 1200mm	1200mm, 1400mm
External Temp & Humid	45°C, 95% non-condensing		
UPS Capacity	3kVA, 6kVA, 10kVA	6kVA, 10kVA	10kVA
External Batteries	Up to 1 hour, external		
Power Distribution Module (PDM)	Maintenance Bypass, Surge Protection		
Power Distribution Unit (PDU)	Basic (optional Managed)		
Display	10" HMI with built-in network controller		
Sensors	Temp, Humid, Door (2), Smoke, Water		
Over-Temperature Protection	Automatic Door Release, Optional Dual Vented/Glass Door		
LED Lighting	Front (Blue) & Rear (Red)		
Fire Suppression	Rackmount (1U, or 3U)		
Video Monitoring	IP Camera + NVR		
Access Control	3-in-1 Access Control (RFID, Fingerprint, Passcode)		
Door Locking System	Magnetic Locks (2)		
Noise Rating @ 1M	< 60dB	< 55dB	< 65dB
Warranty	1 Year (extended available)		

Note:

- Products are engineered and built to order and can be customized to the user requirement.
- Specifications shown are recommended solutions and are subject to change without any further notification.





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