Containerized Modular Data Center

ArcTiv Containerized Modular Data Centers provide a complete rack, power and cooling solution for edge-computing applications in harsh or outdoor environments. Each container includes online UPS, IT racks with built-in cold-air/hot-air isolation and wall-mount cooling units. Remote monitoring controller is compatible with 3rd-party DCIM's and allow IT managers to real-time monitor system performance without having be located on-site.

Closed View
Wall-Mount Cooling Units for Outdoor Applications

Open View
Power & IT Racks with N+1 Reliability

Benefits	
Lowest Cost of Ownership	Lower total investment than traditional data center site
Universal Deployment	Ruggedized design suitable for indoor & outdoor environments
Rapid Deployment	Build, deliver and commission 12 weeks from order
Customized Design	Engineered-to-order to meet exact application requirements
Pre-Engineered and Testing	Pre-fabricated with standard, upgradeable options
Greater Capacity	Maximum RMU capacity and power & cooling density
Cooling Efficiency	Packaged cooling system & cold/hot air management
Standardized Management	Remote monitoring & management portals

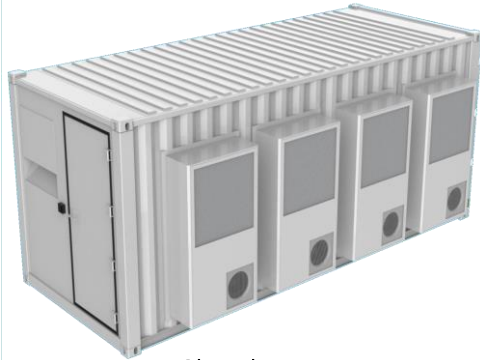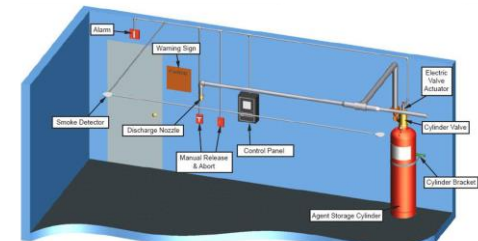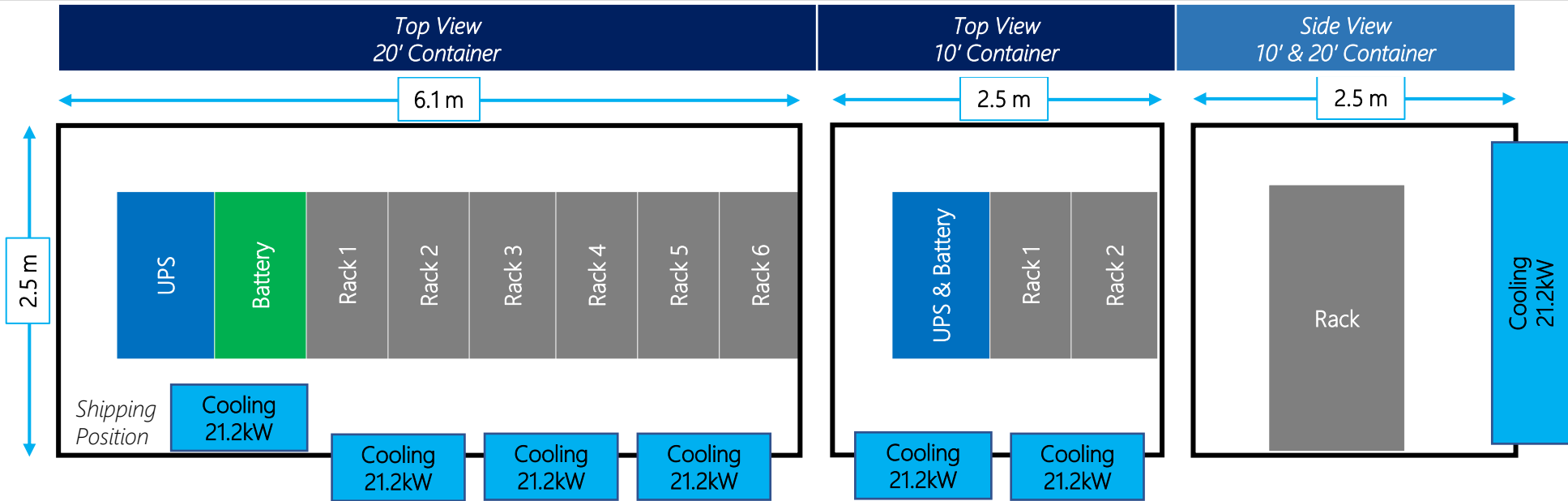| N+1 Power & Cooling	Remote Monitoring
Wall-Mount Cooling System High-Efficiency & Environment Friendly Packaged Cooling	**All-in-One Controller** Network Controller and HMI with Remote Monitoring
Rackmount Online UPS System Intelligent Power System with Surge Protection	**3-in-1 Access Control** RFID, Fingerprint & PIN with system log

Containerized Modular Data Center

PRODUCT DIMENSIONS & LAYOUT

Top View 20' Container	Top View 10' Container	Side View 10' & 20' Container

Top View 20' Container

6.1 m — 2.5 m

UPS | Battery | Rack 1 | Rack 2 | Rack 3 | Rack 4 | Rack 5 | Rack 6

Shipping Position

Cooling 21.2kW

Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW

Top View 10' Container

2.5 m

UPS & Battery | Rack 1 | Rack 2

Cooling 21.2kW | Cooling 21.2kW

Side View 10' & 20' Container

2.5 m

Rack

Cooling 21.2kW

20' Container

10' Container

Fire Suppression System
10' & 20' Container

ARCTIV
IT Solutions Provider

Containerized Modular Data Center

SPECIFICATION

Parameter		ATCMDC10	ATCMDC20
Container	Container Dimensions (W x L x H) (ft)	10' x 10' x 10'	20' x 10' x 10'
	Protection Level	IP65	IP65
	Salt Spray Test	750h	750h
	Fire Resistance	UL 120 min	UL 120 min
	Thermal Insulation	Co-efficient < 0.4W/(m^2*k)	Co-efficient < 0.4W/(m^2*k)
	Wind Resistance	> 30 m/s	> 30 m/s
	Seismic Performance	NEBS Zone 3	NEBS Zone 3
Racks	Rack Dimensions	42U x 600mmW x 1200mmD	42U x 600mmW x 1200mmD
	Rack Quantity	2 (IT) + 1 (Power)	6 (IT) + 2 (Power)
	Total Available IT Space (RMU)	84	252
Power	UPS Power Range (max, AC)	30kVA (2 x 15kVA)	75kVA (5 x 15kVA)
	UPS Redundancy	N+1	N+1
	UPS Battery	Custom	Custom
	Power Distribution Module (PDM)	Maintenance Bypass, Surge	Maintenance Bypass, Surge
	Power Distribution Unit (PDU)	4 x Basic (0U, 20xC13, 4xC19)	12 x Basic (0U, 20xC13, 4xC19)
Cooling	Packaged Cooling (Wall-Mount)	21kW / Unit	21kW / Unit
	Packaged Cooling (Number, Max)	1 + 1	3 + 1
	Cooling Types	DX-Type, Wall Mount	DX-Type, Wall Mount
Fire	Fire Warning System	VESDA/Smoke/Temp	VESDA/Smoke/Temp
	Fire Extinguishing Gas	FM200 / Novec1230	FM200 / Novec1230
Monitoring	HMI	10" LCD (0U)	
	Monitoring Functions	Temp & Humid, UPS, Cooling, Smoke, Water, Door	
	Network Protocol	Web Portal, MODBUS	Web Portal, MODBUS
Security	Access Control	RFID, Fingerprint, PIN	RFID, Fingerprint, PIN
	RFID Card	10	10
Environment	Operating Temp	-40^{0}C ~ 55^{0}C	-40^{0}C ~ 55^{0}C
	Operating Humidity	0 – 95% (Non-condensing)	0 – 95% (Non-condensing)
Safety	Certifications	CE	CE
	Warranty	1-Year	1-Year

Monitoring & Management System

10" HMI

Monitoring	Sensors	Management
• HMI • Web • SMS	• Power • Temperature • Humidity • Door • Smoke • Water	• UPS • Cooling • Alarms
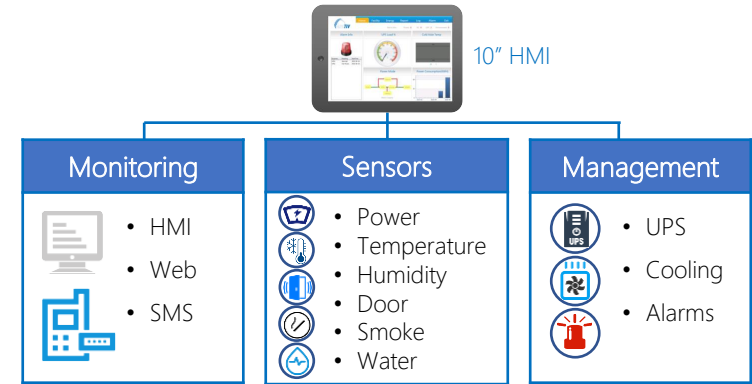
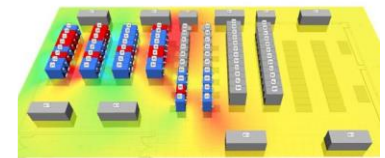## System Options (Upgradeable)

Intelligent PDU
(1U or 0U)

Media Converter
Modbus to SNMP

Battery System
Lead-Acid or Lithium-Ion

DCIM via Sunbird
Ideal for Edge-Deployments