

110 kW Prefabricated Data Center IT Module - Busway

Technical Spec

Schneider Electric offers scalable, easy-to-deploy, Prefabricated Data Center Modules.



Hot Aisle

13 NetShelter
AR3300 Racks;
1 NetShelter
AR3350



Busway Power
Distribution (2N)

Fire Suppression,
Alarms, Controls,
Dehumidification

Entrance/Staging
Lobby and
Electrical Room



Power - Input	
Input Power Voltage (Nominal)	400V AC; 3 Phase; 50 Hz
Max. Input Current	250A
Power Distribution	
Total IT Load	110kW at 2N (14 racks at 8 kW per Rack)
Non-Critical Power Capacity	9kW
Nominal Output Voltage to Rack	400V 3PH with Overload Protection
Main Distribution	Busway (qty 2)
Rack Distribution	AP8881 Metered, 11kW, 240V, 16A (36) C13 & (6) C19 - (2 per rack)
Cooling	
Type, Number of Units	N+1 Cooling w/ ACRC502 (Qty 2) In Row; ACRP502 (Qty 2) In Row, w/ Chilled Water with Humidification
Cooling Capacity	142kW N+1
Operating Water Inlet Temp	15° C
Internal Operating Humidity	10% - 95%
Internal Operating Temperature	15.6° C to 26.7° C (60° F to 80° F)
Racks	
Rack Qty, Size and Type	13 - AR3100 42U x 600 mm (w) x 1070 mm (d) 1 - AR3150 42U x 750 mm (w) x 1070 mm (d)
Hot aisle	930 mm x 11000 mm (37" w x 36'1" l)
Cold aisle	1000 mm x 11000 mm (39" w x 36'1" l)
Air blocking	2 Interior Doors
Management System and Safety	
StruxureWare Data Center Expert	Interface that monitors, manages and controls devices that provide power, cooling, security and environmental data.
Environmental Monitoring	Cooling Unit Temp Sensors: AP9335T (Qty 22); Temp and Humidity Probes: AP9335TH (Qty 4); Door Sensors NBE50302 (Qty 3); Leak Sensors NBE50308 (Qty 1)
Fire Suppression and Detection	NOVEC clean agent system with smoke/heat detection, auto/manual actuation, and audible/strobe alarms.
Exits	1 Primary Exit, 2 Emergency Exits
Physical	
Length	13.7 m (45' 0")
Width	3.2 m (10' 6")
Height	3.6 m (11' 10")
Weight (Estimated)	Shipping: 25,000 kg (55,000 lbs) Loaded: 40,000 kg (88,000 lbs) (Typical) 570 kg/m ² (1250 lbs/m ²)
Entrance Lobby for Environmental Separation	2.2 m (7' 5") w x 3.2 m (10' 9") l
Stacking	Optional
Environmental (external)	
Operating Min/Max Temp.	-25° to 45°C (-13° to 113°F)
Seismic and Wind Loading	Site Specific
Operating Altitude	0 - 2000m (0 - 6560FT)
Additional Features	Physical Surveillance Cameras; Integrated Power Management System and Controls; Fibreport; Entry Locks