

Xubus Node

Quick Deployment for Telecom Edge & Data Center Applications

All-in-one, prefabricated data center 18kW, 35kW, 50kW, 70kW and 90kW

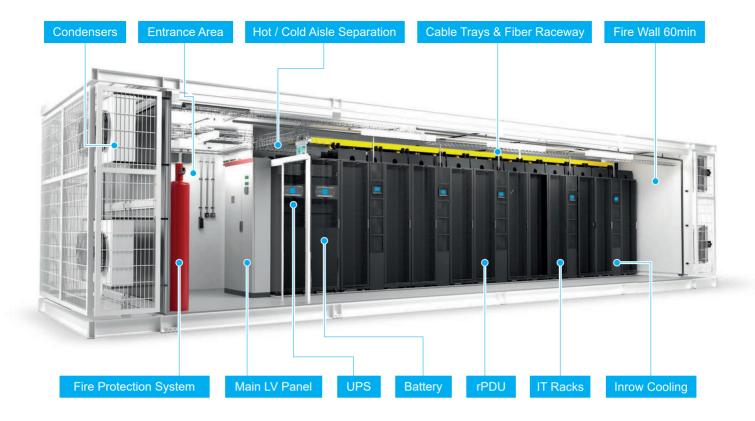
Europe, Middle East and Africa



The emerging 5G infrastructure opens new opportunities for enterprises and institutions offering critical services to customers and the public. Players within telecom, healthcare, banking and insurance, manufacturing industries, the military and more, are met with high and growing expectations for a superior user experience, with unprecedented speed, capacity, reliability and data security.

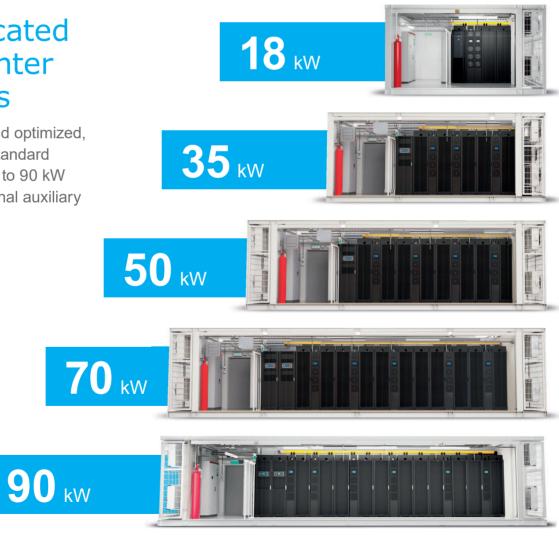
Delta Xubus Node solutions are the perfect answer for supporting 5G needs, offering turnkey data centers available in five different IT load configurations from 18 to 90kW. It is an all integrated, plugand-play solution for rapid deployment with excellent reliability and flexibility – ready to deliver on the promise of 5G.



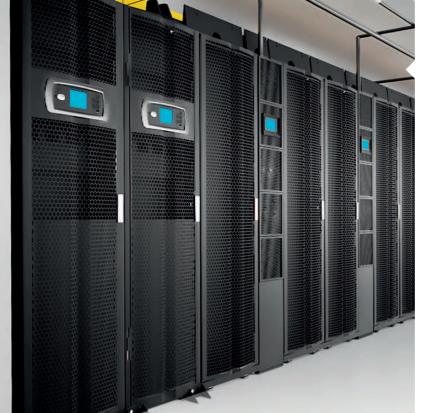


Prefabricated Data Center Solutions

Fully designed and optimized, deliverable in 5 standard solutions from 18 to 90 kW IT load with optional auxiliary systems.







Power System

- UPS systems with outstanding power performance, ultimate availability and efficiency provide critical power protection and savings for customers.
- Automatic switching between two sources is available in a base option for all Xubus Node solutions, allowing customers the connection of on-site power production systems (apart from the grid power supply).
- Power distribution solution integrated within a UPS, allows saving valuable data center space.
- Cable distribution directly above racks increases space utilization and provides flexible and simple installation.
- Battery backup provides 5 minute runtime at full load.

Prefabricated Data Center

1.

Rapid deployment of pre-engineered module with an all integrated system enables IT revenue generation at an earlier phase for quicker investment payback.

2.

Robust module structure allows customer to fill complete racks with IT equipment and utilize full rack loads (1420 kg per rack).

3.

Fire resistance of the module (El60), as well as a robust structure, allows implementation of the system in different locations with challenging environmental conditions.





Uptime Tier III Ready certificate

A Tier III certified data center is concurrently maintainable with redundant components as a key differentiator, with redundant distribution paths to serve the critical environment. Unlike Tier I and Tier II, these facilities require no shutdowns when equipment needs maintenance or replacement. The components of Tier III are added to Tier II components so that any part can be shut down without impacting IT operation.



Optional - Data Center InfraSuite Manager

- As a comprehensive suite of data center management tools, brings visibility and automation to the datacenter for easier management and more effective optimization, with added functionality.
- The basic model of InfraSuite Manager enables vendor-independent equipment integration and provides real-time equipment operating status, data, faults and indicators in the designed layout plan.
- The optional PUE Energy Module handles energy consumption measurement, PUE calculation, electricity cost calculation, and historical data analysis.

Cooling System

- Cooling system is comprised of DX cooling in-row units with hot swappable fans and distributed control.
- Standard operating ambient temperature range is -15°C up to +48°C.
- Automatic step-out function to manage local hot spots.
- Remote air cooled condensers are pre-installed on the module so there is no requirement for additional on-site installation.
- Condensers are surrounded with a mesh cage ensuring mechanical protection.



Xubus Node 18kW

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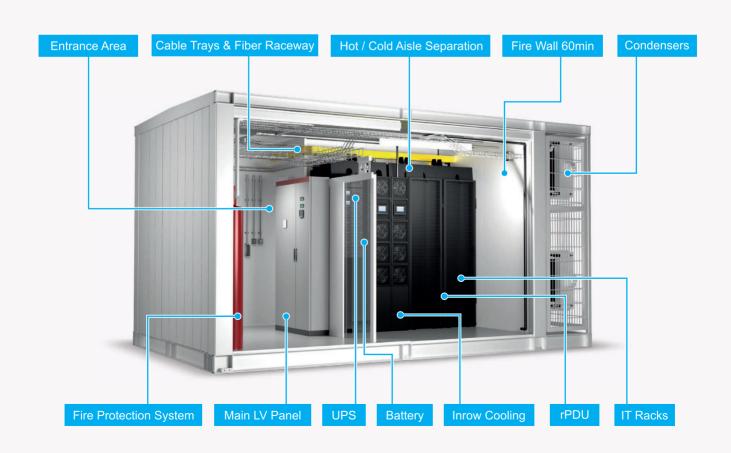
Description

With the ever-growing popularity of mobile devices and the continuous increase in Internet services, users are making increasingly high demands on the response speed of Internet services. Currently, 5G is the most widely anticipated network transmission technology with its advanced service requirements for low latency, high capacity and a good user experience.

The most compelling feature of 5G is low latency, which promises to accelerate the generation of many applications that require extremely low latency, such as virtual reality (VR), augmented reality (AR), and autonomous vehicles or drones. With the rapid development of 5G, greater edge computing capabilities will inevitably be needed, and prefabricated edge data centers will rise rapidly in the future to become the focus of market attention.

Following the growing applications of edge computing, Delta is introducing a new generation of modularized data center, Xubus Node, which offers flexible power system and cooling designs, quick deployment and scalable capacity for versatile implementation. Xubus Node has an all-in-one design that not only provides one-stop shopping for customers, but also achieves high system integration and reliability.

- · Rapid deployment of pre-engineered modules
- · Design according to Tier II and Tier III level available
- Fire resistance of the module (El60)
- UPS systems with outstanding power performance
- · Battery backup provides 5 minute runtime at full load
- Automatic switching between two sources is available in a base option for all Xubus Node solutions
- · Power distribution solution integrated within a UPS
- · Cable distribution directly above racks
- Cooling systems are comprised of DX cooling in-row units with hot swappable fans and distributed control
- Standard operating ambient temperature range is -15°C to +48°C.
- · Remote air cooled condensers are pre-installed on the module
- · Condensers are surrounded with a mesh cage
- · Fire detection and suppression system provided
- Different optional systems available according to customer requirements



Xubus Node 18kW

Power System	
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz
Total IT load	18kW
IT load per rack	6kW
Nominal output voltage to rack	400V AC, 3 Phase, 50 Hz
Main distribution	RPDC
Rack distribution	PDU2421 Metered, 16A, 3p
UPS system	Tier II - 2x Delta RT 20kW System
	Tier III - 2x Delta RT 20kW System
Battery backup time (BOL)	5min

Cooling	
Cooling unit	InRow Cooling, Direct Expansion
Number of units (N+1)	2
Net sensible cooling capacity (kW)*	24kW
Return air unit operating range	26°C to 40°C
Humidity control	Included

Racks	
Rack Qty - Delta InfraSuite rack 42U x 600mm (w) x 1100mm (d)	3 (102 U space available)
Hot aisle / cold aisle width	800mm / 1140mm
Rack load	1420kg
Additional features	Bottom cover, Blanking panels

^{*} Return air: 5400 m³/h @35°C/22%RH; Outdoor temperature 35°C. At altitudes above 700m / 2300ft derated cooling capacity must be taken into consideration. For outdoor temperatures < -15°C performance needs to be verified.

Physical dimensions - Outer	
Length	5635mm
Height	3200mm
Width	3300mm
Weight without IT equipment (estimated)	8500kg

Safety	
Fire suppression and detection	Fire control panel, smoke detection, auto/manual activation, acoustic and visual alarm, NOVEC gas suppression system
Environment monitoring (in DCIM option)	Delta TH sensor per rack
Fire resistance of the module	EI60 (both directions)

Environmental	
Operating Min/Max external temperature	-15°C to 48°C
Seismic and wind loading	Specific to location
Operating altitude	Up to 2000m

Options
Access control system
CCTV system
Aspiration system
DCIM system (Delta InfraSuite Manager)
Upgrade to two rPDUs per rack
Fiber cable trays



Xubus Node 35kW

Prefabricated Data Center Solutions

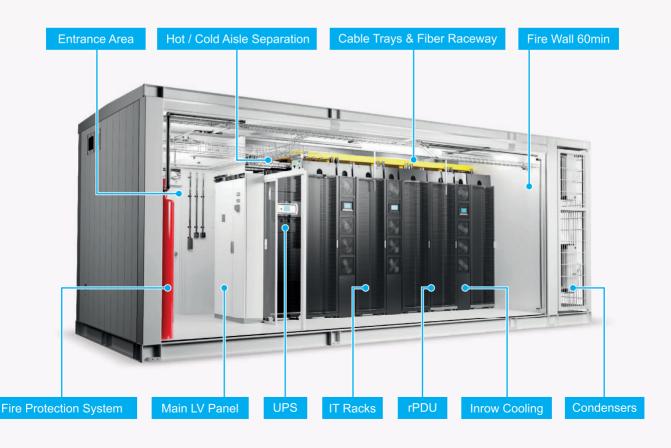
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- · Rapid deployment of pre-engineered modules
- · Design according to Tier II and Tier III level available
- Fire resistance of the module (El60)
- UPS systems with outstanding power performance
- · Battery backup provides 5 minute runtime at full load
- Automatic switching between two sources is available in a base option for all Xubus Node solutions
- · Power distribution solution integrated within a UPS
- · Cable distribution directly above racks
- Cooling systems are comprised of DX cooling in-row units with hot swappable fans and distributed control
- Standard operating ambient temperature range is -15°C to +48°C.
- · Remote air cooled condensers are pre-installed on the module
- · Condensers are surrounded with a mesh cage
- · Fire detection and suppression system provided
- Different optional systems available according to customer requirements



Xubus Node 35kW

Power System	
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz
Total IT load	35kW
IT load per rack	7kW
Nominal output voltage to rack	400V AC, 3 Phase, 50 Hz
Main distribution	RPDC
Rack distribution	PDU2421 Metered, 16A, 3p
UPS system	Tier II - Delta DPH 75kW System
	Tier III - 2x Delta DPH 75kW System
Battery backup time (BOL)	5min

Cooling	
Cooling unit	InRow Cooling, Direct Expansion
Number of units (N+1)	3
Net sensible cooling capacity (kW)*	48kW
Return air unit operating range	26°C to 40°C
Humidity control	Included

Racks	
Rack Qty - Delta InfraSuite rack 42U x 600mm (w) x 1100mm (d)	5
Hot aisle / cold aisle width	800mm / 1140mm
Rack load	1420kg
Additional features	Bottom cover, Blanking panels

^{*} Return air: 5400 m³/h @35°C/22%RH; Outdoor temperature 35°C.

At altitudes above 700m / 2300ft derated cooling capacity must be taken into consideration. For outdoor temperatures < -15°C performance needs to be verified.

Physical dimensions - Outer	
Length - Tier II	7735mm
Length - Tier III	8335mm
Height	3200mm
Width	3300mm
Weight without IT equipment (estimated)	10500kg

Safety	
Fire suppression and detection	Fire control panel, smoke detection, auto/manual activation, acoustic and visual alarm, NOVEC gas suppression system
Environment monitoring (in DCIM option)	Delta TH sensor per rack
Fire resistance of the module	EI60 (both directions)

Environmental	
Operating Min/Max external temperature	-15°C to 48°C
Seismic and wind loading	Specific to location
Operating altitude	Up to 2000m

Options	
Access control system	
CCTV system	
Aspiration system	
DCIM system (Delta InfraSuite Manager)	
Upgrade to two rPDUs per rack	
Fiber cable trays	



Xubus Node 50kW

Prefabricated Data Center Solutions

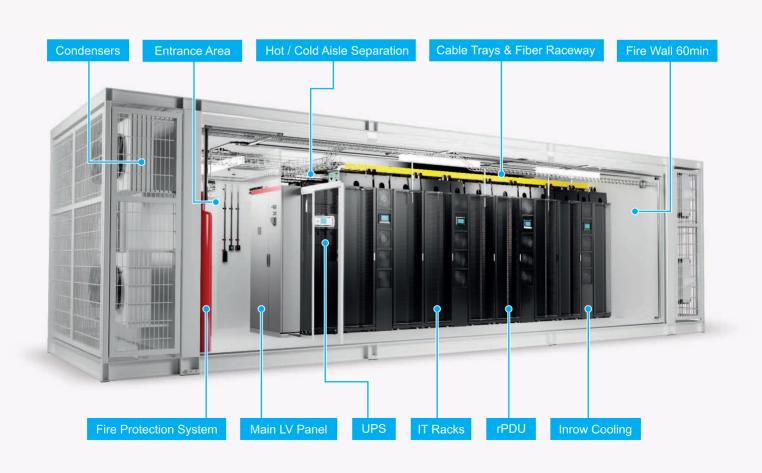
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- · Rapid deployment of pre-engineered modules
- · Design according to Tier II and Tier III level available
- Fire resistance of the module (El60)
- UPS systems with outstanding power performance
- · Battery backup provides 5 minute runtime at full load
- Automatic switching between two sources is available in a base option for all Xubus Node solutions
- · Power distribution solution integrated within a UPS
- · Cable distribution directly above racks
- Cooling systems are comprised of DX cooling in-row units with hot swappable fans and distributed control
- Standard operating ambient temperature range is -15°C to +48°C.
- · Remote air cooled condensers are pre-installed on the module
- · Condensers are surrounded with a mesh cage
- · Fire detection and suppression system provided
- Different optional systems available according to customer requirements



Xubus Node 50kW

Power System	
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz
Total IT load	50kW
IT load per rack	6.25kW
Nominal output voltage to rack	230V AC, 1 Phase, 50 Hz
Main distribution	RPDC
Rack distribution	PDU1315 Metered, 32A, 1p
UPS system	Tier II - Delta DPH 75kW System Tier III - 2x Delta DPH 75kW System
Battery backup time (BOL)	5min

Cooling	
Cooling unit	InRow Cooling, Direct Expansion
Number of units (N+1)	4
Net sensible cooling capacity (kW)*	72kW
Return air unit operating range	26°C to 40°C
Humidity control	Included

Racks	
Rack Qty - Delta InfraSuite rack 42U	8
Hot aisle / cold aisle width	800mm / 1140mm
Rack load	1420kg
Additional features	Bottom cover, Blanking panels

^{*} Return air: 5400 m³/h @35°C/22%RH; Outdoor temperature 35°C. At altitudes above 700m / 2300ft derated cooling capacity must be taken into consideration. For outdoor temperatures < -15°C performance needs to be verified.

Physical dimensions - Outer	
Length - Tier II	10380mm
Length - Tier III	10980mm
Height	3200mm
Width	3300mm
Weight without IT equipment (estimated)	13000kg

Safety	
Fire suppression and detection	Fire control panel, smoke detection, auto/manual activation, acoustic and visual alarm, NOVEC gas suppression system
Environment monitoring (in DCIM option)	Delta TH sensor per rack
Fire resistance of the module	EI60 (both directions)

Environmental	
Operating Min/Max external temperature	-15°C to 48°C
Seismic and wind loading	Specific to location
Operating altitude	Up to 2000m

Options
Access control system
CCTV system
Aspiration system
DCIM system (Delta InfraSuite Manager)
Upgrade to two rPDUs per rack
Fiber cable trays



Xubus Node 70kW

Prefabricated Data Center Solutions

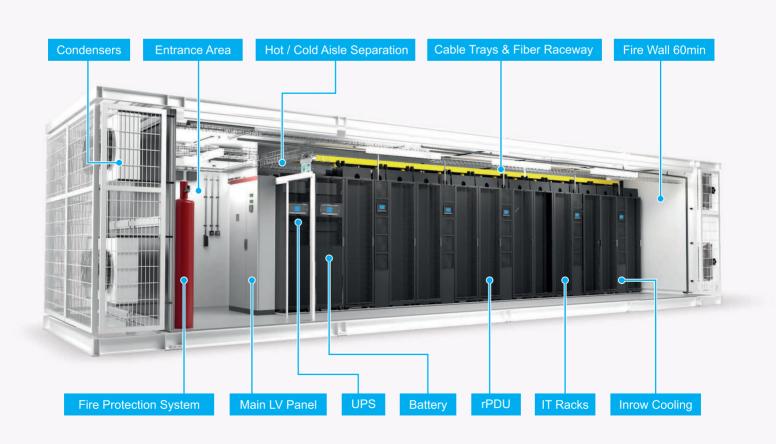
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- · Rapid deployment of pre-engineered modules
- · Design according to Tier II and Tier III level available
- Fire resistance of the module (El60)
- UPS systems with outstanding power performance
- · Battery backup provides 5 minute runtime at full load
- Automatic switching between two sources is available in a base option for all Xubus Node solutions
- · Power distribution solution integrated within a UPS
- · Cable distribution directly above racks
- Cooling systems are comprised of DX cooling in-row units with hot swappable fans and distributed control
- Standard operating ambient temperature range is -15°C to +48°C.
- · Remote air cooled condensers are pre-installed on the module
- · Condensers are surrounded with a mesh cage
- · Fire detection and suppression system provided
- Different optional systems available according to customer requirements



Xubus Node 70kW

Power System	
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz
Total IT load	70kW
IT load per rack	6.36kW
Nominal output voltage to rack	Tier II - 400V AC, 3 Phase, 50 Hz Tier III - 230V AC, 1 Phase, 50 Hz
Main distribution	RPDC
Rack distribution	Tier II - PDU2421 Metered, 16A, 3p Tier III - PDU1315 Metered, 32A, 1p
UPS system	Tier II - Delta DPH 150kW System Tier III - 2x Delta DPH 75kW System
Battery backup time (BOL)	5min

Cooling	
Cooling unit	InRow Cooling, Direct Expansion
Number of units (N+1)	5
Net sensible cooling capacity (kW)*	96kW
Return air unit operating range	26°C to 40°C
Humidity control	Included

Racks	
Rack Qty - Delta InfraSuite rack 42U x 600mm (w) x 1100mm (d)	11
Hot aisle / cold aisle width	800mm / 1140mm
Rack load	1420kg
Additional features	Bottom cover, Blanking panels

^{*} Return air: 5400 m³/h @35°C/22%RH; Outdoor temperature 35°C.

At altitudes above 700m / 2300ft derated cooling capacity must be taken into consideration. For outdoor temperatures < -15°C performance needs to be verified.

Physical dimensions - Outer		
Length	13380mm	
Height	3200mm	
Width	3300mm	
Weight without IT equipment (estimated)	16000kg	

Safety	
Fire suppression and detection	Fire control panel, smoke detection, auto/manual activation, acoustic and visual alarm, NOVEC gas suppression system
Environment monitoring (in DCIM option)	Delta TH sensor per rack
Fire resistance of the module	EI60 (both directions)

Environmental	
Operating Min/Max external temperature	-15°C to 48°C
Seismic and wind loading	Specific to location
Operating altitude	Up to 2000m

Options
Access control system
CCTV system
Aspiration system
DCIM system (Delta InfraSuite Manager)
Upgrade to two rPDUs per rack
Fiber cable trays



Xubus Node 90kW

Prefabricated Data Center Solutions

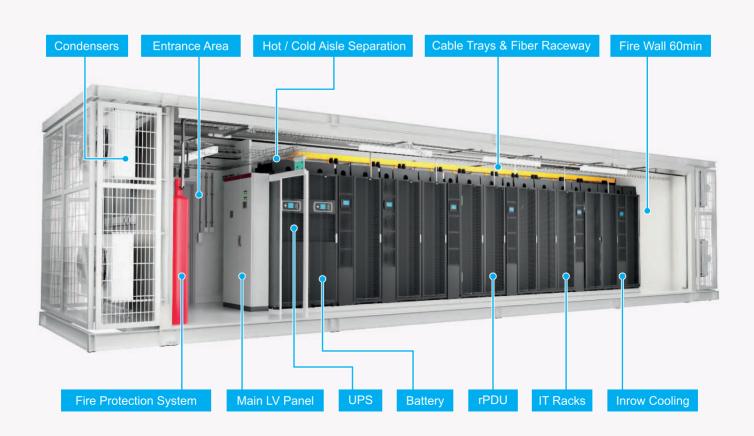
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- · Rapid deployment of pre-engineered modules
- · Design according to Tier II level available
- Fire resistance of the module (EI60)
- UPS systems with outstanding power performance
- · Battery backup provides 5 minute runtime at full load
- Automatic switching between two sources is available in a base option for all Xubus Node solutions
- · Power distribution solution integrated within a UPS
- · Cable distribution directly above racks
- Cooling systems are comprised of DX cooling in-row units with hot swappable fans and distributed control
- Standard operating ambient temperature range is -15°C to +48°C.
- · Remote air cooled condensers are pre-installed on the module
- · Condensers are surrounded with a mesh cage
- · Fire detection and suppression system provided
- Different optional systems available according to customer requirements



Xubus Node 90kW

Power System	
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz
Total IT load	90kW
IT load per rack	8.18kW
Nominal output voltage to rack	400V AC, 3 Phase, 50 Hz
Main distribution	RPDC
Rack distribution	PDU2421 Metered, 16A, 3p
UPS system	Tier II - Delta DPH 150kW System
Battery backup time (BOL)	5min

Cooling	
Cooling unit	InRow Cooling, Direct Expansion
Number of units (N+1)	6
Net sensible cooling capacity (kW)*	120kW
Return air unit operating range	26°C to 40°C
Humidity control	Included

Racks	
Rack Qty - Delta InfraSuite rack 42U x 600mm (w) x 1100mm (d)	11
Hot aisle / cold aisle width	800mm / 1140mm
Rack load	1420kg
Additional features	Bottom cover, Blanking panels

^{*} Return air: 5400 m³/h @35°C/22%RH; Outdoor temperature 35°C. At altitudes above 700m / 2300ft derated cooling capacity must be taken into consideration. For outdoor temperatures < -15°C performance needs to be verified.

Physical dimensions - Outer		
Length	13380mm	
Height	3200mm	
Width	3300mm	
Weight without IT equipment (estimated)	17000kg	

Safety	
Fire suppression and detection	Fire control panel, smoke detection, auto/manual activation, acoustic and visual alarm, NOVEC gas suppression system
Environment monitoring (in DCIM option)	Delta TH sensor per rack
Fire resistance of the module	EI60 (both directions)

Environmental	
Operating Min/Max external temperature	-15°C to 48°C
Seismic and wind loading	Specific to location
Operating altitude	Up to 2000m

Options
Access control system
CCTV system
Aspiration system
DCIM system (Delta InfraSuite Manager)
Upgrade to two rPDUs per rack
Fiber cable trays



Delta Xubus Node Portfolio

Technical Specifications



- · Provides total data center life cycle services, including consulting, design, simulation, implementation and after sales.
- Provides five standard configurations for quick selection.
- · Customization is available to meet customer requirements for optimal solutions.
- · Offers comprehensive power supply, power distribution, cooling system, modular racks and DCIM solutions for implementation anywhere.
- · Delivers all-in-one solutions that can be highly integrated with different subsystems

XUBUS NODE	18KW	35KW	50KW	70KW	90KW
RELIABILITY	Tier II or Tier III	Tier II or Tier III	Tier II or Tier III	Tier II or Tier III	Tier II
POWER SYSTEM					
Input power voltage (nominal)	400V AC, 3 phase, 50 Hz	400V AC, 3 phase, 50 Hz	400V AC, 3 phase, 50 Hz	400V AC, 3 phase, 50 Hz	400V AC, 3 phase, 50 Hz
Total IT load	18kW	35kW	50kW	70kW	90kW
IT load per rack	6kW	7kW	6.25kW	6.36kW	8.18kW
Battery backup time (BOL)	5min	5min	5min	5min	5min
COOLING					
Cooling unit		In	Row Cooling, Direct Expans	ion	
Number of units (N+1)	2	3	4	5	6
RACKS					
Rack Qty - 42U x 600mm (w) x 1100mm (d)	3 (102 U space available)	5	8	11	11
U Space available	102 U	208 U	334 U	460 U	460 U
Rack load	1420kg	1420kg	1420kg	1420kg	1420kg
DIMENSION-OUTER					
Length	5635mm	Tier II - 7735mm Tier III - 8335mm	Tier II - 10380mm Tier III - 10980mm	13380mm	13380mm
Height			3200mm		
Width	3300mm				
SAFETY					
Fire suppression and detection	Fire control panel,	smoke detection, auto/ma	nual activation, audio and v	isual alarm, NOVEC gas su	ppression system
Fire resistance of the module			EI60 (both directions)		
ENVIRONMENTAL					
Operating Min/Max external temperature	-15°C to 48°C				
Seismic and wind loading	Specific to location				
Operating altitude	Up to 2000m				
OPTIONS					
Access control system	DCIM system (Delta InfraSuite Manager)				
CCTV system	Upgrade to two rPDUs per rack				
Aspiration system	Fiber cable trays				

Data Center Solution Team Certification







All specifications are subject to change without prior notice.





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