Xubus Node

Quick Deployment for Telecom Edge & IoT Applications

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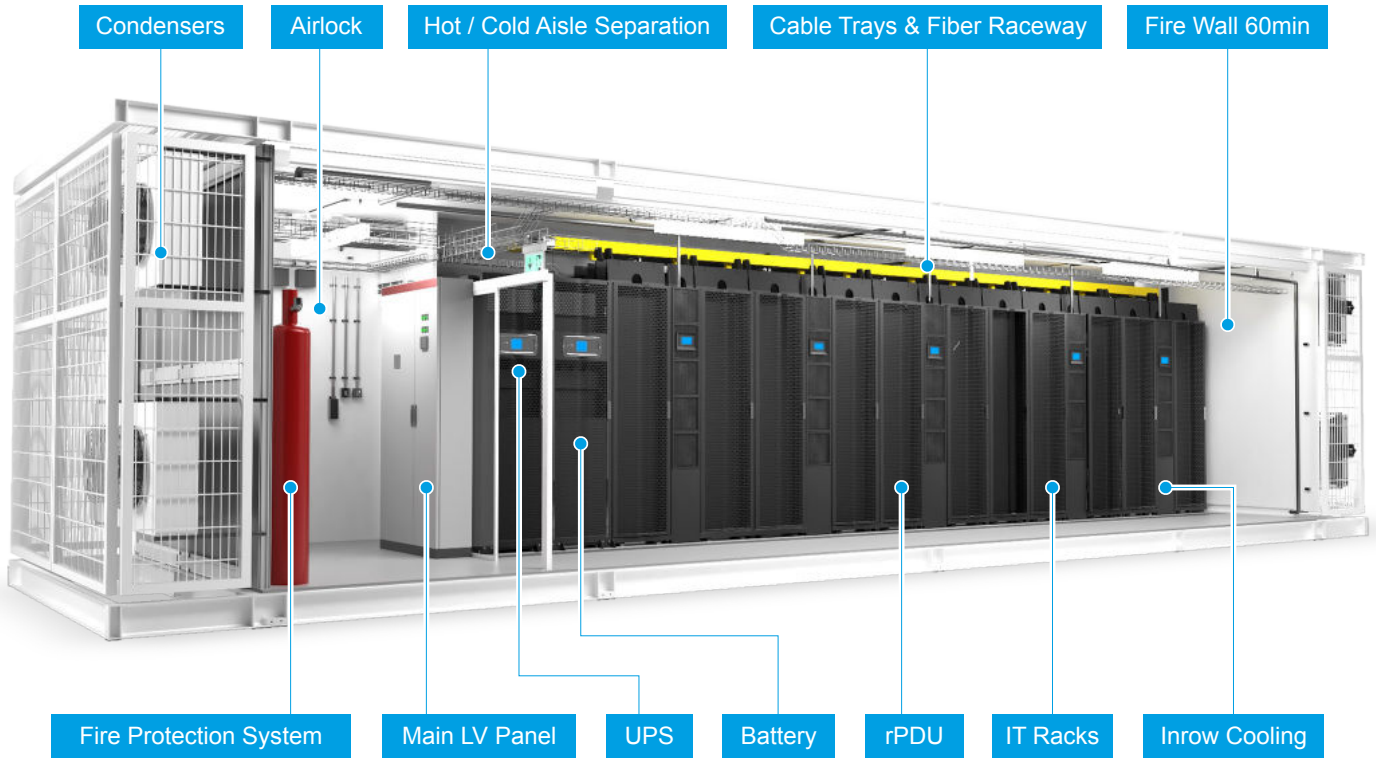18kW, 35kW, 50kW, 70kW and 90kW

Europe, Middle East and Africa

Smarter. Greener. Together.

5G mobile networks are bringing rapid deployment of Edge data centers to meet the increasing demands for high capacity, low latency and a superior user experience.

Delta Xubus Node solutions are the perfect answer for supporting the 5G infrastructure needs, offering turnkey data centers available in five different IT load configurations from 18 to 90kW.

It is an all integrated, plug-and-play solution for rapid deployment with excellent reliability and flexibility.

Condensers · Airlock · Hot / Cold Aisle Separation · Cable Trays & Fiber Raceway · Fire Wall 60min

Fire Protection System · Main LV Panel · UPS · Battery · rPDU · IT Racks · Inrow Cooling

Prefabricated Data Center Solutions

Deliverable in 5 standard solutions from 18 to 90 kW. IT load with optional configurations.

18 kW

35 kW

50 kW

70 kW

90 kW

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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).
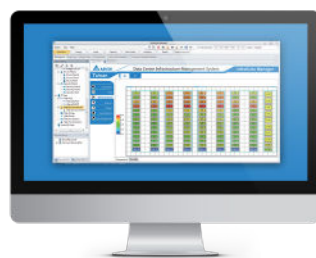
3.
Fire resistance of the module (EI60), as well as a robust structure, allows implementation of the system in different locations with challenging environmental conditions.

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.

TIER-Ready UptimeInstitute **III**

Manufacturer: Delta Electronics (Netherlands) B.V.
Model: Xubus Node 70kW Data Center Design
Reference: G_PS01_DE_XN70_Y2020

Expires
June 2022

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.

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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	InRow Cooling, Direct Expansion				
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/manual activation, audio and visual alarm, NOVEC gas suppression 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.

Delta EMEA Headquarters

Netherlands B.V.

Zandsteen 15, 2132MZ, Hoofddorp
The Netherlands
Tel: +31 (0)20 800 3900

www.delta-emea.com

Delta Telecom Power - EMEA Locations

Czech Republic

Průmyslová 1306 /7, 102 00 Praha 10,
Czech Republic
Tel: +420 272 019 330

Dubai

Gate 7, 3rd Floor, Hamarain Centre,
Dubai, United Arab Emirates
Tel: +971 4 2690148

Finland

Rajatorpantie 8
FI-01600 Vantaa, Finland
Tel: +358 9 849 660

France

Zi Bastillac Nord
65000 Tarbes, France
Tel: +33 562 34 09 30

Germany

Coesterweg 45, D 59494 Soest,
Germany
Tel: +49 2921 987 0

Italy

Piazza Grazioli 18 00186
Roma, Italy
Tel: +39 06 69941209

Poland

23 Poleczki Str. 02 822
Warsaw, Poland
Tel: +48 22 335 26 00

Russia

Vereyskaya Plaza II, office 401
Vereyskaya str.17
121357 Moscow,Russia
Tel: +7 495 644 3240

Slovakia - assembly, testing and logistics center EMEA

Priemyselna ulica 4600/1, 018 41
Dubnica nad Vahom, Slovakia
Tel: +421 42 466 1111

South Africa

Tuinhof Office Park, Unit C401, Karee
Building, 265 West Avenue, Centurion,
0157 South Africa
Tel: +27 12 663 2714

Spain

Carretera de Villaverde a Vallecas
265 1ºDcha, Ed. Hormigueras. P.I. de
Vallecas 28031 Madrid - Spain
Tel: + 34 91 223 74 20

Sweden

Annavägen 3, P.O. Box 3096
SE 350 33, Växjö, Sweden
Tel: +46 470 706 800

Switzerland

Freiburgstrasse 251, 3018 Bern
Bümpliz, Switzerland
Tel: +41 31 998 53 11

Turkey

Serifali Mevkii Barboros Bulvari Soylesi
Sok. No:19 Y.Dudullu-Umraniye,
Istanbul, Turkey
Tel: +90 216 499 9910

United Kingdom

1 Redwood Court, Peel Park, East
Kilbride, G74 5PF, Scotland,
United Kingdom
Tel: +44-1355-588-888

Delta is one of a few key suppliers with pan-EMEA capacity in telecom power and infrastructure solutions – from R&D, system design, through manufacturing, to sales and support. Building on a long track record as a key supplier to the world's leading telecom operators, network owners and builders, we are a safe choice and a trustworthy partner. We see the whole picture and can cater for all your telecom power and infrastructure needs.