



Certificate No:
TAA0000348

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Dell Power Edge Rack-Server

with type designation(s)
PowerEdge XR11 & PowerEdge XR12

Issued to

Dell Inc.
Round Rock, TX, USA

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature A

Humidity A

Vibration A

EMC B

Enclosure Required protection according to DNV Rules shall be provided upon installation on board

Issued at **Hamburg** on **2022-02-21**

This Certificate is valid until **2027-02-20**.

for **DNV**

DNV local station: **Certification & Inspection Services**

Approval Engineer: **Didier Girardin**

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Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

Dell Power Edge Rack-Server -Compact and ruggedized for complex workloads using highly scalable memory, I/O, and network options in locations constrained by space.

Type ¹⁾	Front/Rear Port Access	
PowerEdge XR11 (1U rugged server).	FRONT ACCESSED-SATA	(120 VAC/60 Hz)
	REAR ACCESSED -SAS	(-48 VDC)
PowerEdge XR12 (1U rugged server).	REAR ACCESSED-SATA	(-48 VDC)
	FRONT ACCESSED -SATA	(120 VAC/60 Hz)

¹⁾ Bill of Materials tested see ANNEX

Application/Limitation

- The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.
- Installation in space with air conditioner and operational temperature within 5°C to 55°C
- Installation on the bridge only for arrangements in compliance with configuration: EUT K, EUT L, EUT M (AC), EUT M (DC) (see in ANNEX configuration tested)
- Compass safe distance as documented in report 22584-10/30 dated November 19, 2021

FSJ/DAO
PCE Technology de Juarez , S.A de C.V
Blvd.Intl No. 8888, San Jeronimo
Cd. Juarez, Chih. C.P 32505

CCC
Dell (Xiamen) Computer Co., Ltd
No.2388, JinShang Road,
Xiamen 361011 China

APCC
Dell Global Business Center Sdn Bhd.
Plot 76, Mukim II,
Bukit Tengah Industrial Park
Penang 14000 Bukit Mertajam Malaysia

EMFP
Dell Products (Poland) Sp. z o.o.
ul. Informatyczna 1
Lodz 92-410 POLAND

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021
Compass safe distance measured according to IEC 60945, 4th edition (2002).

Marking of product

- Identification of the manufacturer,
 - Equipment type number or model identification under which it was type tested,
 - Serial number of the unit,
 - Compass safe distance.
- Alternatively, the minimum safe distance for fixed equipment may be given in the equipment manual, but portable equipment shall always be marked according 60945 IEC:2002 Ch. 4.5.3

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE



Job Id: 262.1-035264-1
Certificate No: TAA0000348

Type Approval documentation
Hidden

ANNEX
Hidden



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