Date : 2020/08/19

Radware Ltd.
22 Raoul Wallenberg St.
6971917 Tel Aviv
Israel

Attn:

Re. : CU US + Canada Certificate

Type of Equipment : Network Switch
Model Designation : See Certificate
Certificate No. : CU 72190327 0002
File No. : 50218184 002
Engineer/Contact : Andreas Klinker
Standard(s) : UL 62368-1:2014
              CAN/CSA-C22.2 NO. 62368-1-14

Dear Madame or Sir,

The above referenced technical equipment has been tested and was found to be in compliance with the listed test requirement(s). Enclosed, please find the TÜV Rheinland approval document No. CU 72190327 0002. It authorizes you to label the listed product(s) with the TÜV Rheinland Mark identified in the approval document. For compliance, the Test Mark must be on the approved unit.

Your product is subject to regular factory follow-up inspections as well as annual certificate and factory registration fees.

In using the TÜV Rheinland Mark you are obligated to comply with the TÜV Rheinland of North America Service Agreement.

If we can be of any further assistance to you, please do not hesitate to contact us.

Sincerely yours,
Certification Body

Dipl.-Ing. A. Klinker
QA Certification Officer

Enclosure
License Holder: Radware Ltd.
22 Raoul Wallenberg St.
6971917 Tel Aviv
Israel

Manufacturing Plant: NEXCOM International Co., Ltd.
(Hua-Ya Factory)
2F., No.50, Huaya 3rd Rd.
Guishan Dist., Taoyuan City 333
Taiwan

Test report no.: USA-AK 50218184 002
Tested to: UL 62368-1:2014
CAN/CSA-C22.2 NO. 62368-1-14

Certified Product: Network Switch
Change:
Upgrade of standard for all models: see above
Appendix: 1, 1-5

Licensed Test mark: C U S

Date of Issue (day/mo/yr)
19/08/2020

TUV Rheinland of North America, Inc., 12 Commerce Road, Newtown, CT 06470. Tel (203) 425-5888 Fax (203) 425-4009
Constructional Data Form for Electrical Products

License Holder: Radware Ltd.
22 Raoul Wallenberg St, Tel Aviv 6971917, Israel

Factory: NEXCOM International Co., Ltd. (Hua-Ya Factory)
2F., No.50, Huaya 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan

Type of Product: Network Switch

Model Number:
1) ODS-HTQ
2) ODS-HTQ DUAL
3) ODS-HTQ DC
4) ODS-HTQ Dual DC

Rating:
1) 100-240Vac, 47-63Hz, 8-4A
2) 100-240Vac, 47-63Hz, 8-4A x 2
3) -42 - -72Vdc, 12A
4) -42 - -72Vdc, 12A x 2

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Object/part no.</th>
<th>Manufacturer/Trademark</th>
<th>Type/Model</th>
<th>Technical Data</th>
<th>Standard</th>
<th>Mark(s) of Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building-in power supply unit (for AC powered units with single power supply) (for model ODS-HTQ)</td>
<td>Zippy Technology Corp.</td>
<td>PSS-2A00V</td>
<td>I/P: 100-240Vac, 47-63Hz, 15-7.5A; O/P: +12V/83A, +5VSB/0-4A, Total output: 1000 W; Class I, 3100 m, Tma: 48 °C.</td>
<td>UL 60950-1 CAN/CSA-C22.2 No. 60950-1</td>
<td>cULus (E143756)</td>
<td></td>
</tr>
</tbody>
</table>
# Constructional Data Form for Electrical Products

(For TÜV Rheinland of N.A., Inc. use only)
Certificate # CU72 190327  File # 50218184 002

## Building-in power supply unit (for AC powered units with dual power supplies) (for model ODS-HTQ DUAL)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Object/part no.</th>
<th>Manufacturer/Trademark</th>
<th>Type/Model</th>
<th>Technical Data</th>
<th>Standard</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Building-in power supply unit (for AC powered units with dual power supplies) (for model ODS-HTQ DUAL)</td>
<td>Zippy Technology Corp.</td>
<td>PSS2-5A00V3V (redundant power supply with two PSS-2A00V power modules)</td>
<td>I/P: 100-240Vac, 47-63 Hz, 15-7.5 A; O/P: +5 Vdc/0-22A, +3.3 Vdc/0-22 A, +12 Vdc/83 A, +5 VSB/0-4 A, -12 Vdc/0-0.5 A; Max. output power: +5 Vdc and +3.3Vdc Max. = 150 W, Total output: 1000W; Class I, 3100m, Tma: 48 °C.</td>
<td>UL 60950-1 CAN/CSA-C22.2 No. 60950-1</td>
<td>cULus (E143756)</td>
<td></td>
</tr>
</tbody>
</table>

## Building-in power supply unit (for DC powered units with single power supply) (for model ODS-HTQ DC)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Object/part no.</th>
<th>Manufacturer/Trademark</th>
<th>Type/Model</th>
<th>Technical Data</th>
<th>Standard</th>
<th>Mark(s) of Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building-in power supply unit (for DC powered units with single power supply) (for model ODS-HTQ DC)</td>
<td>Zippy Technology Corp.</td>
<td>DPSS-2A00V</td>
<td>I/P: -42 Vdc to - 72 Vdc, 30-17 A; O/P: +12Vdc/83 A, +5 VSB/0-4 A, Total output: 1000W, Class I, 3100 m, Tma: 45 °C.</td>
<td>UL 60950-1 CAN/CSA-C22.2 No. 60950-1</td>
<td>cULus (E143756)</td>
<td></td>
</tr>
</tbody>
</table>

Note: Any errors or omissions in the CDF shall be reported to TÜV Rheinland immediately upon receipt by the applicant.
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<th>Standard</th>
<th>Mark(s) of Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building-in power supply unit (for DC powered units with dual power supply) (for model ODS- HTQ Dual DC)</td>
<td>Zippy Technology Corp.</td>
<td>DPSS2-5A00V3V (redundant power supply with two DPSS- 2A00V power modules)</td>
<td>I/P: -42 Vdc to -72Vdc, 30-17 A; O/P: +5 Vdc/0-22A; +12Vdc/83 A, +3.3Vdc/0-22 A, -12Vdc/0-0.5 A, +5VSB/0-4 A, +5Vdc and +3.3Vdc Max. = 150W, Total output:1000 W, Class I, 3100 m, Tma: 45 °C.</td>
<td>UL 60950-1 CAN/CSA-C22.2 No. 60950-1</td>
<td>cULus (E143756)</td>
<td></td>
</tr>
<tr>
<td>System fan (front panel) (eight provided)</td>
<td>Everflow Precision Electronic (Dong Guan) Co., Ltd.</td>
<td>R124028BU</td>
<td>12 Vdc, 0.4 A max. 18.03 CFM min.</td>
<td>UL 507 CSA-C22.2 No. 113</td>
<td>cULus (E236658)</td>
<td></td>
</tr>
<tr>
<td>(Alternate)</td>
<td>Sanyo Denki Co., Ltd.</td>
<td>9GV0412P3G03</td>
<td>12 Vdc, 0.52 A max., 0.6 m3/min min.</td>
<td>UL 507 CSA-C22.2 No. 113</td>
<td>cULus (E46810)</td>
<td></td>
</tr>
<tr>
<td>System fan (rear side) (three provided)</td>
<td>Everflow Precision Electronic (Dong Guan) Co., Ltd.</td>
<td>RB7038BU</td>
<td>12 Vdc, 0.8 A max., 66.45 CFM min.</td>
<td>UL 507 CSA-C22.2 No. 113</td>
<td>cULus (E236658)</td>
<td></td>
</tr>
<tr>
<td>(Alternate)</td>
<td>Sanyo Denki Co., Ltd.</td>
<td>9GA0712P1H001</td>
<td>12 Vdc, 1.1A max., 1.92 m3/min min.</td>
<td>UL 507 CSA-C22.2 No. 113</td>
<td>cULus (E46810)</td>
<td></td>
</tr>
<tr>
<td>CPU fan (two provided max.)</td>
<td>Everflow Precision Electronic (Dong Guan) Co., Ltd.</td>
<td>F126025BU</td>
<td>12 Vdc, 0.26 A max., 24.49 CFM min.</td>
<td>UL 507 CSA-C22.2 No. 113</td>
<td>cULus (E236658)</td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
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<td>Type/Model</td>
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<td>Standard</td>
<td>Mark(s) of Conformity</td>
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</tr>
<tr>
<td>HDD</td>
<td>Western Digital Technologies Inc.</td>
<td>WD5000AAKX-22ERMA0</td>
<td>5 Vdc, max. 1.5 A; 12 Vdc, max. 1.0 A</td>
<td>UL 60950-1 CAN/CSA C22.2 No. 60950-1</td>
<td>cULus (E101559)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>Interchangeable</td>
<td>Interchangeable</td>
<td>5 Vdc, max. 1.5 A; 12 Vdc, max. 1.0 A</td>
<td>UL 60950-1 CAN/CSA C22.2 No. 60950-1</td>
<td>cULus</td>
</tr>
<tr>
<td>RTC Battery</td>
<td>SPECTRUM BRANDS INC</td>
<td>BR2032, CR2032</td>
<td>Max. abnormal charge current: 5mA</td>
<td>UL 1642</td>
<td>UL</td>
<td></td>
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<tr>
<td></td>
<td>(Alternate)</td>
<td>VIC-DAWN ENTERPRISE CO LTD</td>
<td>CR2032, BR2032</td>
<td>Max. abnormal charge current: 10mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>PANASONIC CORPORATION OF NORTH AMERICA</td>
<td>CR2032*, CR-2032*</td>
<td>Max. abnormal charge current: 10mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>PANASONIC CORPORATION OF NORTH AMERICA</td>
<td>BR2032*, BR-2032*</td>
<td>Max. abnormal charge current: 5mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>VARTA MICRORBATTERY GMBH</td>
<td>CR2032</td>
<td>Max. abnormal charge current: 10mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>Tohoku Murata Manufacturing Co., Ltd.</td>
<td>CR2032*, CR2032X*</td>
<td>Max. abnormal charge current: 10mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>(Alternate)</td>
<td>EVE ENERGY CO LTD</td>
<td>CR2032, CR2032HT</td>
<td>Max. abnormal charge current: 10mA</td>
<td>UL 1642</td>
<td>UL</td>
</tr>
</tbody>
</table>
### Constructional Data Form for Electrical Products

(For TÜV Rheinland of N.A., Inc. use only)
Certificate # CU72 190327  File # 50218184 002

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<th>Standard</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Polyswitch (UF1 for USB2.0 port)</td>
<td>Polytronics Technology Corp.</td>
<td>SMD1206P150T FT</td>
<td>8 Vdc, Ih = 1.5 A, It = 3 A</td>
<td>UL 1434, UL 60730-1</td>
<td>UL (E201431)</td>
</tr>
<tr>
<td></td>
<td>Metal enclosure</td>
<td>Interchangeable</td>
<td>Interchangeable</td>
<td>Metal alloy, min.0.8 mm thick</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Fiber Optical Transceivers (Optional)</td>
<td>Interchangeable</td>
<td>Interchangeable</td>
<td>3.3Vdc, max. 1W, Laser class 1 with metal enclosure</td>
<td>UL 60950-1 CAN/CSA C22.2 No. 60950-1</td>
<td>cULus</td>
</tr>
<tr>
<td></td>
<td>PCB</td>
<td>Interchangeable</td>
<td>Interchangeable</td>
<td>Min. V-1, min. 105°C</td>
<td>UL 796 CAN/CSA C22.2 No. 0.17</td>
<td>cULus</td>
</tr>
</tbody>
</table>

**Routine Safety Testing:**

<table>
<thead>
<tr>
<th>Required:</th>
<th>Not Required:</th>
<th>Reason:</th>
<th>Class III product:</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Test Details:**

- ✗ Dielectric Strength:
  - BI: L/N – Chassis
  - RI: L/N - Secondary

- ✗ Ground Continuity:
  - AC-inlet - Chassis

- Insulation Resistance:
  - RI: L/N - Chassis

- Leakage Current:
  - RI: L/N - Chassis

- Other:

**Test Values:**

- **Dielectric Strength:**
  - BI: L/N – Chassis: 2121Vdc
  - RI: L/N - Secondary: 4242Vdc

- **Ground Continuity:**
  - AC-inlet - Chassis: 25A, 1s, <100mΩ

- **Insulation Resistance:**
  - RI: L/N - Chassis: 500Vdc

---

TUV Rheinland of North America, Inc.

Israel

2020-August-11

Note: Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.

Appendix 1 of Preparing a Constructional Data Form/Critical Component Lists (CDF) (MS-0004352)
Certificate

Certificate no.
CU 72132697 06

License Holder:
Radware, Ltd
22 Raoul Wallenberg St.
69710 Tel Aviv
Israel

Manufacturing Plant:
NEXCOM International Co., Ltd.
9F&10F, No 63, Sec. 1, Sanmin Rd
220 Bangqiao Dist., New Taipei City
Taiwan - R.O.C.

Test report no.: USA-SK 31381640 003
Tested to:
UL 60950-1:2007 R12.11
CAN/CSA-C22.2 No.60950-1-07+A1:2011

Client Reference: Yaniv Ben-Dor

Certified Product: Network Switch

License Fee - Units

Addition:
Model Designation:
41) RODS-HTQ-A4-AC, 42) RODS-HTQ-XL-A4-A,
43) Alteon 6420, 44) Alteon 6420 XL,
45) ODS-HTQ, 46) DefensePro x420,
47) ODS-HTQ XL, 48) OnDemand Switch HTQ,
49) OnDemand Switch HTQ XL, 50) Alteon-NG 6420,
51) Alteon-NG 6420 XL,
52) Alteon 6420 XL with Extreme SSL,
53) Alteon 6420p, 54) Alteon 6420p XL,
55) RODS-HTQ-D-2AC,
56) Alteon 6420 XL with Extreme SSL Dual, contd.

Appendix: 1, 1-7

Licensed Test mark:

Date of Issue
(day/mo/yr)
10/10/2014

TÜV Rheinland of North America, Inc., 12 Commerce Road, Newtown, CT 06470, Tel (203) 426-0888 Fax (203) 426-4009
Certificate

Certificate no. CU 72132697 07

License Holder: Radware, Ltd
22 Raoul Wallenberg St.
69710 Tel Aviv
Israel

Manufacturing Plant: NEXCOM International Co., Ltd.
9F&10F, No 63, Sec. 1, Sanmin Rd
220 Banqiao Dist., New Taipei City
Taiwan - R.O.C.

Test report no.: USA-SK 31381640 003
Client Reference: Yaniv Ben-Dor
Tested to: UL 60950-1:2007 R12.11
CAN/CSA-C22.2 No.60950-1-07+A1:2011

Certified Product: Network Switch

Model Designation: (contd.)
57) RODS-HTQ-A4-DC, 58) RODS-HTQ-XL-A4-D,
59) RODS-HTQ-A4-NEBS, 60) RODS-HTQS-X-NEBS,
61) Alteon 6420 NEBS, 62) Alteon 6420 DC,
63) Alteon 6420 XL DC, 64) Alteon 6420 XL NEBS,
65) ODS-HTQ DC, 66) DefensePro x420 DC,
67) ODS-HTQ XL DC, 68) OnDemand Switch HTQ DC,
69) OnDemand Switch HTQ XL DC,
70) Alteon 6420 XL with Extreme SSL -DC,
71) ODS-HTQp Dual DC, 72) ODS-HTQp XL Dual DC,
73) Alteon 6420p Dual DC, contd.

Licensed Test mark: 

Date of Issue (day/mo/yr)
10/10/2014
Certificate

Certificate no. CU 72132697 08

License Holder: Radware, Ltd
22 Raoul Wallenberg St.
69710 Tel Aviv
Israel

Manufacturing Plant: NEXCOM International Co., Ltd.
9F&10F, No 63, Sec. 1, Sanmin Rd
220 Bangqiao Dist., New Taipei City
Taiwan - R.O.C.

Test report no.: USA-SK 31381640 003
Client Reference: Yaniv Ben-Dor
Tested to: UL 60950-1:2007 R12.11
CAN/CSA-C22.2 No.60950-1-07+A1:2011

Certified Product: Network Switch

Model Designation: (contd.)
74) Alteon 6420p XL Dual DC,
75) Alteon 6420p Dual DC NEBS,
76) Alteon 6420p XL Dual DC NEBS, 77) RODS-HTQ-D-2DC,
78) Alteon 6420 XL with Extreme SSL Dual DC

Rated Voltage: 41)-56) AC 100-240V, 47-63Hz
57)-78) DC -42 to -72V

Rated Current: 41)-52) 8-4A; 53)-56) 2 X 8-4A;
57)-70) 12A; 71)-78) 2 X 12A

Licensed Test mark: TÜVRheinland

Date of Issue (day/mo/yr) 10/10/2014

TÜVRheinland of North America, Inc., 12 Commerce Road, Newtown, CT 06470, Tel (203) 426-0888 Fax (203) 426-4009