UNICOM Engineering, Inc.
A Division of UNICOM Global
NEI Network Engines, Inc.

EVALUATION REPORT
Energy-Related Products (ERP) Directive 2009/125/EC
Annex II – Ecodesign Requirements

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Date of Issue ..... :	03/01/20
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Specification ..... :	Directive 2009/125/EC (21-Oct-2009) implemented by Regulation 617/2013 (26-Jun-2013) as amended by Regulation 2019/424 (15-Mar-2019), Annex II (Lot 9)
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Importer Name ..... :	Kaseya International (UK) Limited
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Website ..... :	www.kaseya.com
PRODUCT:	
Placed on Market ..... :	06/06/18
Placed on Market + 2 yrs ..... :	06/06/20
Last Sale ..... :	11/27/19
Last Sale + 8 yrs ..... :	11/27/27
Test Item Description ..... :	Data Storage
Customer Trade Mark ..... :	Unitrends
Customer Model(s) ..... :	Recovery 8024, 8032, 8040, 8060, 8080, 8100, 8120
Regulatory Label Trademark ..... :	Supermicro
Regulatory Label Model ..... :	826-9 (SSG-6028R-E1CR12T)
POWER SUPPLY:	
Power Supply Description ..... :	920W 1U Redundant PWS W/ Quiet Mode ☐ Single Output ☒ Multi Output
Manufacturer ..... :	Supermicro
Model ..... :	PWS-920P-SQ

Approvals		
	Name / Title	Signature
Completed by ..... :	George Eisenhower, Platform Engineering Director	
Reviewed by..... :	Sam Schroeder VP of Engineering and Manufacturing	
Approved by ..... :	Joe Noonan VP of Product Management	

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<tr><td>1.1</td><td colspan="2">PSU efficiency and power factor requirements</td><td></td></tr>
<tr><td>1.1.1</td><td>From 1 March 2020:
<table>
<tr><th></th><th colspan="4">Minimum PSU Efficiency</th><th>Min Power Factor</th></tr>
<tr><td>% of rated load</td><td>10%</td><td>20%</td><td>50%</td><td>100%</td><td>50%</td></tr>
<tr><td>Multi-output</td><td>---</td><td>88%</td><td>92%</td><td>88%</td><td>0.90</td></tr>
<tr><td>Single-output</td><td>---</td><td>90%</td><td>94%</td><td>91%</td><td>0.95</td></tr>
</table></td><td>See attached 80 PLUS Verification & Testing Report</td><td>P</td></tr>
<tr><td>1.1.2</td><td>From 1 January 2023:
<table>
<tr><th></th><th colspan="4">Minimum PSU Efficiency</th><th>Min Power Factor</th></tr>
<tr><td>% of rated load</td><td>10%</td><td>20%</td><td>50%</td><td>100%</td><td>50%</td></tr>
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</table></td><td></td><td>---</td></tr>
<tr><td>1.2</td><td colspan="2">Material efficiency requirements</td><td></td></tr>
<tr><td>1.2.1</td><td colspan="2">From 1 March 2020, manufacturers shall ensure that joining, fastening or sealing techniques do not prevent the disassembly for repair or reuse purposes of the following components, when present:</td><td>P</td></tr>
<tr><td>1.2.1(a)</td><td>data storage devices;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(b)</td><td>memory;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(c)</td><td>processor (CPU);</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(d)</td><td>motherboard;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(e)</td><td>expansion card/graphic card;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(f)</td><td>PSU;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(g)</td><td>chassis;</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.1(h)</td><td>batteries.</td><td>See attached disassembly instructions</td><td>P</td></tr>
<tr><td>1.2.2</td><td>From 1 March 2020, a functionality for secure data deletion shall be made available for the deletion of data contained in all data storage devices of the product.</td><td>Our data deletion methodology is described in a public facing knowledge article:
https://support.unitrends.com/UnitrendsBackup/s/article/000006058</td><td></td></tr>
</table>

Requirements		Result - Remark	P
1.2.3	From 1 March 2021, the latest available version of the firmware shall be made available from two years after the placing on the market of the first product of a certain product model for a minimum period of eight years after the placing on the market of the last product of a certain product model, free of charge or at a fair, transparent and non-discriminatory cost.		---
	The latest available security update to the firmware shall be made available from the time a product model is placed on the market until at least eight years after the placing on the market of the last product of a certain product model, free of charge.		---
2	**Specific Ecodesign requirements only for servers with one or two processor sockets**		
2.1	Idle state power	Product not a server	N/A
2.2	Active state efficiency	Product not a server	N/A
3	**Information to be provided by manufacturers**		
3.1	From 1 March 2020, with the exception of custom made servers, made on a one-off basis, the following product information on servers shall be provided in the instruction manuals for installers and end-users (when present with the product), and on the free-access websites of manufacturers, their authorised representatives and importers from the time a product model is placed on the market until at least eight years after the placing on the market of the last product of a certain product model:		N/A
3.1(a)	product type:	Product not a server	N/A
3.1(b)	manufacturer's name:	Product not a server	N/A
	registered trade name:	Product not a server	N/A
	registered trade address:	Product not a server	N/A
3.1(c)	product model number:	Product not a server	N/A
	model number (low-end performance configuration):	Product not a server	N/A
	model number (high-end performance configuration):	Product not a server	N/A
3.1(d)	year of manufacture:	Product not a server	N/A
3.1(e)	PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power, with the exception of direct current servers, expressed in % and rounded to the first decimal place;	Product not a server	N/A
3.1(f)	power factor at 50 % of the rated load level, with the exception of direct current servers, rounded to three decimal places;	Product not a server	N/A

Requirements		Result - Remark	P
3.1(g)	PSU rated power output (Watts), rounded to the nearest integer. If a product model is part of a server product family, all PSUs offered in a server product family shall be reported with the information specified in (e) and (f);	Product not a server	N/A
3.1(h)	idle state power, expressed in Watts and rounded to the first decimal place;	Product not a server	N/A
3.1(i)	list of all components for additional idle power allowances, if any (additional PSU, HDDs or SSDs, additional memory, additional buffered DDR channels, additional I/O devices);	Product not a server	N/A
3.1(j)	maximum power, expressed in Watts and rounded to the first decimal place;	Product not a server	N/A
3.1(k)	declared operating condition class, as detailed in Table 6;	Product not a server	N/A
3.1(l)	idle state power (Watts) at the higher boundary temperature of the declared operating condition class;	Product not a server	N/A
3.1(m)	the active state efficiency and the performance in active state of the server;	Product not a server	N/A
3.1(n)	information on the secure data deletion functionality referred to in point 1.2.2 of this Annex, including instructions on how to use the functionality, the techniques used and the supported secure data deletion standard(s), if any;	Product not a server	N/A
3.1(o)	for blade servers, a list of recommended combinations with compatible chassis;	Product not a server	N/A
3.1(p)	if a product model is part of a server product family, a list of all model configurations that are represented by the model shall be supplied.	Product not a server	N/A
3.2	From 1 March 2020, the following product information shall be provided in the instruction manuals for installers and end-users (when present with the product), and on the free-access websites of manufacturers, their authorized representatives and importers from the time a product model is placed on the market until at least eight years after the placing on the market of the last product of a certain product model:		
3.2(a)	product type:	Data Storage	P
3.2(b)	manufacturer's name:	Unitrends	
	registered trade name:	Unitrends	
	registered trade address:	200 Summit Drive, Suite 200, Burlington, MA 01803	
3.2(c)	product model number:	8024, 8032, 8040, 8060, 8080, 8100, 8120	

Requirements		Result - Remark	P
3.2(d)	year of manufacture:	2018	
3.2(e)	PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power, with the exception of direct current online data storage products, expressed in % and rounded to the first decimal place;	Attached	
3.2(f)	power factor at 50 % of the rated load level, with the exception of direct current online data storage products, rounded to three decimal places;	Attached	
3.2(g)	declared operating condition class, as detailed in Table 6; it shall also be indicated that 'This product has been tested in order to verify that it will function within the boundaries (such as temperature and humidity) of the declared operating condition class'	Attached	
3.2(h)	information on the data deletions tool(s) referred to in point 1.2.2 of this Annex, including instructions on how to use the functionality, the techniques used and the supported secure data deletion standard(s), if any	Included	
3.3	From 1 March 2020, the following product information shall be made available from the time a product model is placed on the market until at least eight years after the placing on the market of the last product of a certain product model free of charge by manufacturers, their authorized representatives and importers to third parties dealing with maintenance, repair, reuse, recycling and upgrading of servers (including brokers, spare parts repairers, spare parts providers, recyclers and third party maintenance) upon registration by the interested third party on a website provided:		---
3.3(a)	Indicative weight range (less than 5 g, between 5 g and 25 g, above 25 g) at component level, of the following critical raw materials: (a) Cobalt in the batteries; (b) Neodymium in the HDDs;	The RTC CR2032 coin cell is of the type lithium manganese dioxide, and does not contain cobalt.	P
3.3(b)	Instructions on the disassembly operations referred to in point 1.2.1 of this Annex, including, for each necessary operation and component: (a) the type of operation; (b) the type and number of fastening technique(s) to be unlocked; (c) the tool(s) required.	Attached	

Requirements		Result - Remark	P
3.4	From 1 March 2020, the following product information shall be provided in the technical documentation for the purposes of conformity assessment pursuant to Article 4:		
3.4(a)	Information listed in points 3.1 and 3.3, in the case of servers	Not a server	N/A
3.4(b)	Information listed in points 3.2 and 3.3, in the case of data storage products	Attached	

Attachments:

1. 80 PLUS Verification and Testing Report
2. Disassembly Instructions
3. Manual

NORMATIVE ANNEX
(informative)

Table 6 – Operating Condition Classes

Operating Condition Class	Dry Bulb Temp		Humidity Range, Non-Condensing		Max Dew Point (°C)	Maximum rate of Change (°C/hr)
	Allowable Range	Recom-mended Range	Allowable Range	Recom-mended Range		
A1	15 - 32	18 – 27	– 12 °C Dew Point (DP) and 8 % relative humidity (RH) to 17 °C DP and 80 % RH	– 9 °C DP to 15 °C DP and 60 % RH	17	5/20
A2	10 – 35	18 – 27	– 12 °C DP and 8 % RH to 21 °C DP and 80 % RH	Same as A1	21	5/20
A3	5 – 40	18 – 27	– 12 °C DP and 8 % RH to 24 °C DP and 85 % RH	Same as A1	24	5/20
A4	5 - 45	18 – 27		Same as A1	24	5/20

80 PLUS Ratings

80 Plus test type[4]	115 V internal non-redundant				230 V internal redundant				230 V EU internal non-redundant			
Percentage of rated load	10%	20%	50%	100%	10%	20%	50%	100%	10%	20%	50%	100%
80 Plus		80%	80%	80%						82%	85%	82%
80 Plus Bronze		82%	85%	82%		81%	85%	81%		85%	88%	85%
80 Plus Silver		85%	88%	85%		85%	89%	85%		87%	90%	87%
80 Plus Gold		87%	90%	87%		88%	92%	88%		90%	92%	89%
80 Plus Platinum		90%	92%	89%		90%	94%	91%		92%	94%	90%
80 Plus Titanium	90%	92%	94%	90%	90%	94%	96%	91%	90%	94%	96%	94%