Product Environmental Information Declaration Form for EU COMMISSION REGULATION No 2019/424

SUBJECT: Product Environmental Information Declaration

DATE OF DECLARATION: 2021, July 09

Regulatory Reference:	COMMISSION REGULATION (EU) 2019/424 of 15 March 2019 laying down ecodesign requirements for servers and data storage products pursuant to Directive 2009/125/EC of the European Parliament and of the Council and amending Commission Regulation (EU) No 617/2013
Product Type:	Blade HPC Server, 2 socket
Manufacturer's Name:	Hewlett Packard Enterprise 11445 Compaq Center W Dr Houston, TX 77070 United States of America Contact: sustainability@hpe.com for questions
Product Model Number:	Product Model: Apollo 80 Server RMN: CHPF-5877300
Year of Manufacture:	2020
Product Category:	Server

Product Environmental Information Declaration Form for EU COMMISSION REGULATION No 2019/424

Number 1.1.1 and 1.1.2

Internal Power Supply efficiency and Power Factor.

Power Supplies- Platinum and Titanium. Gold Power supply ok for multi-output, until Jan. 2023	**Internal Power Supply Efficiency at 230 VAC**					
	HPE P/S part number	**10% load**	**20% load**	**50% load**	**100% load**	**PF @50% Load**
2200W Power Supply Compuware Technology Inc	CDR-2221-2Mx	93,3	96,07	96,26	94,37	0,990

Number 1.2.3 - Firmware

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.

a) Firmware and security update availability	Specific security issues, resolved in firmware, are identified in the documentation that accompanies the release of each firmware revision. HPE product support, and firmware, are available from the HPE Support Center.

Product Environmental Information Declaration Form for EU COMMISSION REGULATION No 2019/424

Number 2 SPECIFIC ECODESIGN REQUIREMENTS ONLY FOR SERVERS WITH ONE OR TWO PROCESSOR SOCKETS
2.0- Lot 9- SERT Test Results
2.1. Idle state power
2.2. Active state efficiency

SERT Test Results

<table>
<tr><th>Product & Configuration</th><th colspan="6">Power Efficiency</th></tr>
<tr><td>Apollo 80 Server</td><td colspan="6">ETSI EN 303 470 V1.1.1 (2019-03)- Environmental Engineering (EE);
Energy Efficiency measurement methodology and metrics for servers</td></tr>
<tr><td rowspan="4">System Configuration- High Performance
(2) Fujitsu A64FX 2000 2.0Ghz 48 core, per node
(2) 32GB memory DIMMS 64GB
(1) 960GB NVMe M.2 Module, per node
(3) 2200W Power Supply

System Configuration- Low Performance
(2) Fujitsu A64FX 1800 1.8Ghz 48 core, per node
(2) 32GB memory DIMMS 64GB
(1) 480GB NVMe M.2 Module, per node
(3) 2200W Power Supply</td><td>Test System</td><td>CPU Populated</td><td>Active</td><td>Idle Watts</td><td>Idle Calculated Watts</td><td>Idle 35 C Watts</td></tr>
<tr><td>High Performance</td><td>CPU populated 2</td><td>23,9</td><td>332,0</td><td>N/A</td><td>439,5</td></tr>
<tr><td>Low Performance</td><td>CPU populated 2</td><td>23,0</td><td>309,9</td><td>N/A</td><td>418,5</td></tr>
<tr><td colspan="5">2 nodes tested, max of 4 system nodes</td></tr>
</table>

Number 3.1- for Severs

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 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:

a) product type;	Blade HPC Server, 2 socket

Product Environmental Information Declaration Form for EU COMMISSION REGULATION No 2019/424

(b) manufacturer's name, registered trade name and registered trade address at which they can be contacted;	Hewlett Packard Enterprise 11445 Compaq Center W Dr Houston, TX 77070 United States of America
(c) product model number, and if applicable the low-end performance configuration and the high-end performance configuration model numbers;	HPE Apollo 80 Server
(d) year of manufacture;	2020
(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;	See PS Efficiency Form above
(f) power factor at 50 % of the rated load level, with the exception of direct current servers, rounded to three decimal places;	See PS Efficiency Form above
(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);	See PS Efficiency Form 1 above
(h) idle state power, expressed in Watts and rounded to the first decimal place;	See SERT Test Results above
(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).	See SERT Test Results above
(j) maximum power, expressed in Watts and rounded to the first decimal place;	See PS Efficiency Form above
(k) declared operating condition class, as detailed in Table 6;	Declare Operating Condition Class A2 (10-35 C).
(l) idle state power (Watts) at the **higher** boundary temperature of the declared operating condition class;	See SERT Test Results above
(m) the active state efficiency and the performance in active state of the server;	See SERT Test Results above
(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;	Web Link to Secure deletion document here
(o) for blade servers, a list of recommended combinations with compatible chassis;	See HPE Apollo 80 Server QuickSpecs here
(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. If a product model is part of a server product family, the product information required for items e) to m) under point 3.1 shall be reported for the low-end and high-end performance configurations of the server product family.	See SERT Test Results above

Product Environmental Information Declaration Form for EU COMMISSION REGULATION No 2019/424

Number 3.3- for servers and online data storage products

3.3. From 1 March 2020, the following product information on servers and online data storage products 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	Cobalt in the batteries here Neodymium in the HDDs here
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.	Web link to Maintenance and Service Guide here Web link to QuickSpecs here Web link to Document List here