



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-BF-23002E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

Fujitsu Limited

Fujitsu Server PRIMERGY RX2540 M7



Functional unit

Per product

System boundary

final products intermediate products

Raw material acquisition, Production, Distribution,
Use & maintenance, End-of-Life

Main specifications of the product

Product: PYR2547REN

Rack-mounted Server

CPU: Dual Socket

Intel® Xeon® Scalable Processors

Dimensions: 435 × 814.8 × 86.9 (2U) mm

(Dimensions without protrusions)

Use period: 5 years

Company Information

Fujitsu Limited

<https://www.fujitsu.com/jp/products/computing/servers/primergy/>

Registration#	JR-BF-23002E
PCR number	PA-520000-BF-04
PCR name	IT equipments
Publication date	9/27/2023
Verification date	8/23/2023
Verification method	Product-by-product
Verification#	JV-BF-23002
Expiration date	8/22/2028
PCR review was conducted by:	
Approval date	8/15/2023
PCR review panel chair	Ken Yamagishi (SuMPO)

Third party verifier*

Hiroyuki Uchida

Independent verification of data & declaration in accordance with ISO14025

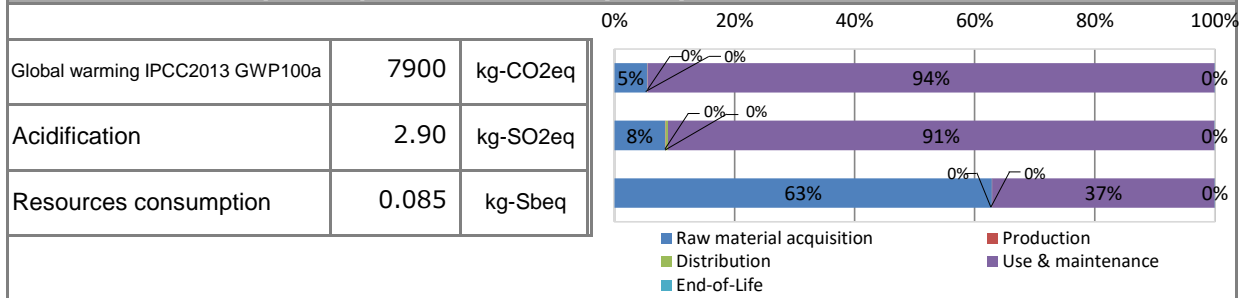
internal external

*Auditor's name is stated if system certification has been performed.

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1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	7.9E+03	4.3E+02	5.9E+00	3.8E+00	7.5E+03	1.8E+00
Ozone layer destruction		kg-CFC-11eq	4.8E-05	4.8E-05	2.6E-11	3.1E-11	3.3E-08	1.0E-09
Acidification		kg-SO ₂ eq	2.9E+00	2.5E-01	2.1E-03	1.2E-02	2.7E+00	2.2E-03
Urban area air pollution		kg-SO ₂ eq	1.3E+00	1.5E-01	8.9E-04	4.7E-03	1.1E+00	1.2E-03
Photochemical ozone		kg-C ₂ H ₄ eq	1.8E-01	5.2E-03	1.4E-04	2.3E-05	1.7E-01	2.2E-05
Toxic chemicals(cancer)		kg-C ₆ H ₆ eq	1.3E-01	9.0E-02	3.3E-05	1.2E-09	4.2E-02	3.3E-06
Toxic chemicals(chronic disease)		kg-C ₆ H ₆ eq	6.6E-03	4.3E-04	4.8E-06	1.8E-10	6.2E-03	4.9E-07
Aquatic toxicity		kg-C ₆ H ₆ eq	1.0E+01	5.4E-01	7.4E-03	2.8E-07	9.4E+00	7.4E-04
Biological toxicity		kg-C ₆ H ₆ eq	2.5E+02	2.0E+01	1.8E-01	6.7E-06	2.3E+02	1.8E-02
Eutrophication		kg-PO ₄ ³⁻ eq	2.0E-04	1.4E-04	3.9E-14	2.6E-14	5.0E-11	5.3E-05
Land use(Occupation)		m ² /year	2.0E+01	7.2E+00	1.0E-02	3.1E-01	1.3E+01	3.3E-02
Land use(Transformation)		m ²	4.0E-01	1.3E-01	2.0E-04	6.3E-03	2.6E-01	6.7E-04
Resources consumption		kg-Sbeq	8.5E-02	5.3E-02	2.5E-05	1.6E-05	3.1E-02	7.6E-06

2. Life cycle inventory analysis (LCI)

Parameter	Value	Unit
Non-renewable material resources	3.6E+01	kg
Non-renewable energy resources	3.1E+03	kg
Non-renewable energy resources	1.3E+05	MJ
Renewable material resources	5.2E+01	kg
Renewable primary energy	4.4E+03	MJ
Consumption of freshwater	1.4E+00	m ³
Emissions, carbon dioxide (fossil), air, unspecified	7.8E+03	kg
Resources, crude oil, 44.7MJ/kg, ground, Non-renewable energy resources	5.0E+02	kg
Emissions, volatile organic compound, air, unspecified	6.4E-04	kg

3. Material composition

Material	Value	Unit
Steel sheet	46	%
Aluminum	2	%
Copper	5	%
ABS	1	%
PC	3	%
PPS	5	%
Printed circuit board	18	%
Cardboard	14	%
Others	5	%



5. Additional explanation

- Scenario Product Type: Computer Server (excluding the blade system)
- Product Name: PRIMERGY RX2540 M7 Model Name: PYR2547REN
- Measurement conditions: Power consumption during use is measured by the measurement method specified by PCR (PA-520000-BF-04)
- Use period: 5 years
- Take-back rate: Calculated assuming 100%
- Use Location: Japan
- Product Configuration:
 - CPU: Intel® Xeon® Gold 5415+ x2
(Adjusted Peak Performance(APP): 0.222720WT, Gigaflops: 742.4 GFLOPS)
 - DIMM : 16GB DDR5 x16
 - HDD : 2.5inch 900GB x2

6-1. Supplementary environmental information

Compliant with the International Energy Star Program Ver3.0. It also complies with the European RoHS Directive.

7. Assumptions of secondary data used

IDEA v2.1.3 and SuMPO Environmental Label Program Registration Data Ver 1.13 are used.

8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
(Reference URL : <https://ecoleaf-label.jp/regulation/>)