Product Environmental Profile

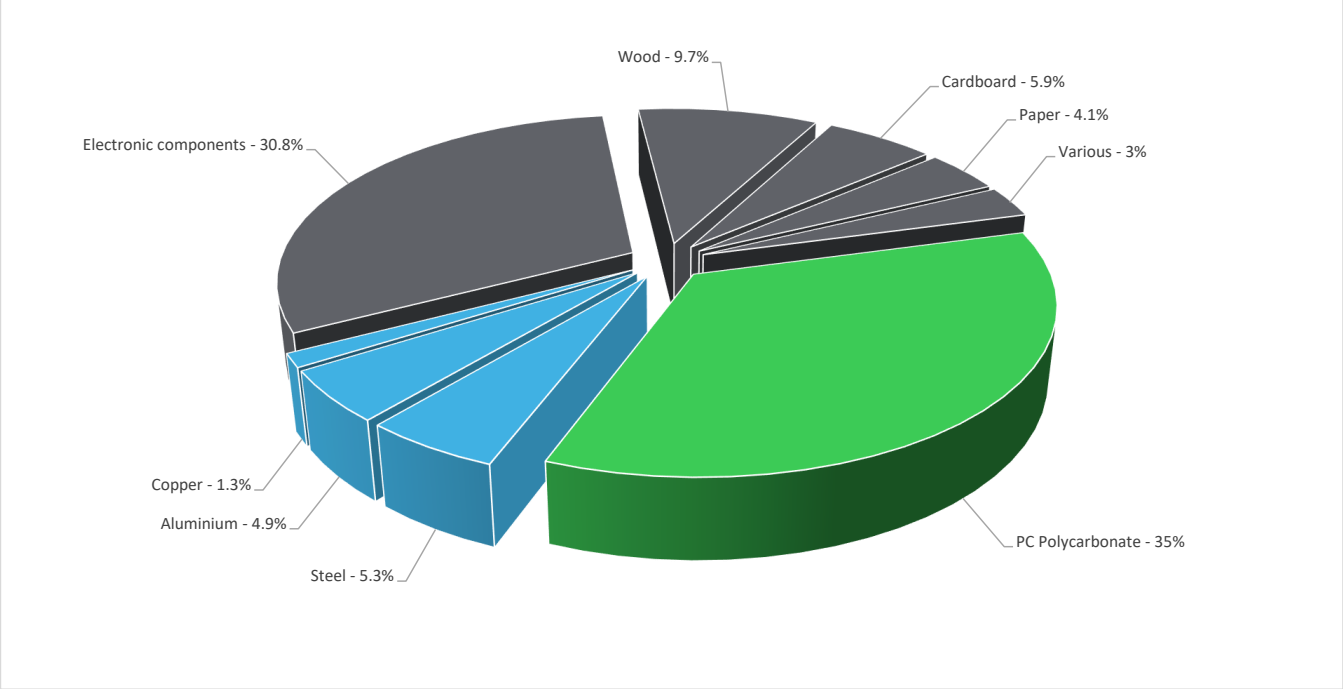
DUAL BAND WIFI ACCESS POINT WITH RJ45

General information

Reference product	DUAL BAND WIFI ACCESS POINT WITH RJ45 - VDIR20491
Description of the product	The Wi-Fi access point is a communication bridge between the wireless network and the wired network. It is the core device for a wireless local area network (WLAN) & It is the access point for the devices which have Wi-Fi function to access the wired network.
Description of the range	Single product
Functional unit	To transmit / exchange wireless network and the Ethernet LAN signals between PoE unit and Wireless functional unit and to receive voltage of Un DC power from up level PoE power delivery equipment at home with a rated voltage of Un and a rated current of In, according to the appropriate use scenario, and during the reference service life of the product of 10 years. in accordance with IEC 60603-7
Specifications are:	Un, rated Voltage (V) - 48V In, Rated Current (A) - 0.18A IP =IP20 (Degree of protection against external mechanical impacts in accordance with the standard IEC 62262) Access rate For 2.4G frequency, 1-574 Mbps For 5G frequency, 6-2402 Mbps Frequency 2.400 to 2.4835GHz 5.150 to 5.250GHz 5.250 to 5.350GHz 5.470 to 5.725GHz 5.725 to 5.850GHz

Constituent materials

Reference product mass	197 g	Including the product and its packaging.



	Others	53.5%
	Plastics	35.0%
	Metals	11.5%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**13%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10 years
Product category	Other equipments - Active product
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study.
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption.
Installation elements	The product installation requires little to no energy. The disposal of packaging materials is also accounted during the installation phase, including transport to disposal. The material constituents of the packaging are Cardboard (25.54%), Paper (22.07%) and wood (52.39%).
Use scenario	The product is in active mode 70% of the time with a power use of 8.5 W, in standby mode 30% of the time with a power use of 0.23 W, for 10 years. The product will be replaced after 5 years.
Time representativeness	The collected data are representative of the year 2024
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	China	France		France
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; China, CN Electricity Mix; France, FR Electricity Mix; Europe, RER	Electricity Mix; Europe, RER	Electricity Mix; Low voltage; 2020; France, FR	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		**DUAL BAND WIFI ACCESS POINT WITH RJ45 - VDIR20491**						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.40E+02	4.55E+01	4.52E-02	7.02E-02	9.35E+01	4.46E-01	-3.56E-01
Contribution to climate change-fossil	kg CO2 eq	1.37E+02	4.55E+01	4.52E-02	3.75E-02	9.08E+01	4.45E-01	-4.04E-01
Contribution to climate change-biogenic	kg CO2 eq	2.69E+00	0*	0*	3.27E-02	2.67E+00	0*	4.79E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1.98E-04	9.90E-05	0*	0*	9.90E-05	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.22E-05	5.79E-06	2.67E-08	0*	6.34E-06	0*	-5.31E-08
Contribution to acidification	mol H+ eq	7.86E-01	2.81E-01	2.19E-04	1.30E-04	5.04E-01	4.37E-04	-3.24E-03
Contribution to eutrophication, freshwater	kg P eq	1.71E-03	8.96E-05	0*	1.49E-05	1.60E-03	8.12E-06	-1.95E-06
Contribution to eutrophication marine	kg N eq	9.03E-02	2.96E-02	1.01E-04	3.80E-05	6.04E-02	1.62E-04	-2.86E-04
Contribution to eutrophication, terrestrial	mol N eq	1.14E+00	3.13E-01	1.10E-03	3.12E-04	8.27E-01	1.75E-03	-2.96E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.00E-01	1.04E-01	3.27E-04	7.46E-05	1.95E-01	4.50E-04	-9.81E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.66E-02	8.25E-03	0*	0*	8.31E-03	0*	-3.22E-05
Contribution to resource use, fossils	MJ	7.25E+03	5.10E+02	0*	0*	6.74E+03	2.92E+00	-6.34E+00
Contribution to water use	m3 eq	3.27E+01	1.19E+01	0*	1.56E-02	2.07E+01	3.79E-02	-1.35E-01

Inventory flows Indicators		DUAL BAND WIFI ACCESS POINT WITH RJ45 - VDIR20491						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.47E+02	2.02E+01	0*	1.21E-01	7.27E+02	0*	-4.09E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.75E+00	8.74E-01	0*	0*	8.74E-01	0*	-7.27E-01
Contribution to total use of renewable primary energy resources	MJ	7.49E+02	2.11E+01	0*	1.21E-01	7.28E+02	0*	-7.68E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.24E+03	5.07E+02	0*	0*	6.73E+03	2.92E+00	-6.34E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.99E+00	2.99E+00	0*	0*	2.99E+00	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7.25E+03	5.10E+02	0*	0*	6.74E+03	2.92E+00	-6.34E+00
Contribution to use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	7.61E-01	2.78E-01	0*	3.63E-04	4.82E-01	8.83E-04	-3.14E-03
Contribution to hazardous waste disposed	kg	3.07E+02	1.53E+02	0*	0*	1.55E+02	6.24E-02	-2.64E+00
Contribution to non hazardous waste disposed	kg	3.14E+01	1.11E+01	0*	2.43E-02	2.02E+01	8.62E-02	-5.62E-01
Contribution to radioactive waste disposed	kg	1.19E-02	4.88E-03	6.38E-06	1.79E-06	7.02E-03	3.80E-06	-4.14E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.66E-02	4.12E-03	0*	7.64E-03	3.33E-02	2.15E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.45E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		DUAL BAND WIFI ACCESS POINT WITH RJ45 - VDIR20491							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	9.35E+01	0*	0*	0*	4.60E+01	0*	4.74E+01	0*
Contribution to climate change-fossil	kg CO2 eq	9.08E+01	0*	0*	0*	4.60E+01	0*	4.48E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	2.67E+00	0*	0*	0*	1.65E-02	0*	2.65E+00	0*
Contribution to climate change-land use and land use change	kg CO2 eq	9.90E-05	0*	0*	0*	9.90E-05	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	6.34E-06	0*	0*	0*	5.81E-06	0*	5.26E-07	0*
Contribution to acidification	mol H+ eq	5.04E-01	0*	0*	0*	2.82E-01	0*	2.22E-01	0*
Contribution to eutrophication, freshwater	kg P eq	1.60E-03	0*	0*	0*	1.13E-04	0*	1.48E-03	0*
Contribution to eutrophication marine	kg N eq	6.04E-02	0*	0*	0*	2.99E-02	0*	3.06E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	8.27E-01	0*	0*	0*	3.16E-01	0*	5.11E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.95E-01	0*	0*	0*	1.05E-01	0*	8.95E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	8.31E-03	0*	0*	0*	8.25E-03	0*	5.34E-05	0*
Contribution to resource use, fossils	MJ	6.74E+03	0*	0*	0*	5.13E+02	0*	6.22E+03	0*
Contribution to water use	m3 eq	2.07E+01	0*	0*	0*	1.20E+01	0*	8.71E+00	0*

Inventory flows Indicators		DUAL BAND WIFI ACCESS POINT WITH RJ45 - VDIR20491							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.27E+02	0*	0*	0*	2.04E+01	0*	7.07E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	8.74E-01	0*	0*	0*	8.74E-01	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	7.28E+02	0*	0*	0*	2.13E+01	0*	7.07E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.73E+03	0*	0*	0*	5.10E+02	0*	6.22E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.99E+00	0*	0*	0*	2.99E+00	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	6.74E+03	0*	0*	0*	5.13E+02	0*	6.22E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	4.82E-01	0*	0*	0*	2.79E-01	0*	2.04E-01	0*
Contribution to hazardous waste disposed	kg	1.55E+02	0*	0*	0*	1.53E+02	0*	1.94E+00	0*
Contribution to non hazardous waste disposed	kg	2.02E+01	0*	0*	0*	1.12E+01	0*	8.94E+00	0*
Contribution to radioactive waste disposed	kg	7.02E-03	0*	0*	0*	4.89E-03	0*	2.13E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	3.33E-02	0*	0*	0*	3.33E-02	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.2.4, database version 2024-02 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-01381-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Validity period	5 years	*Supplemented by*	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	04-2025		
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

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