Product Environmental Profile

AIR EDGE WiFi-Ethernet TTL SD 100-240V

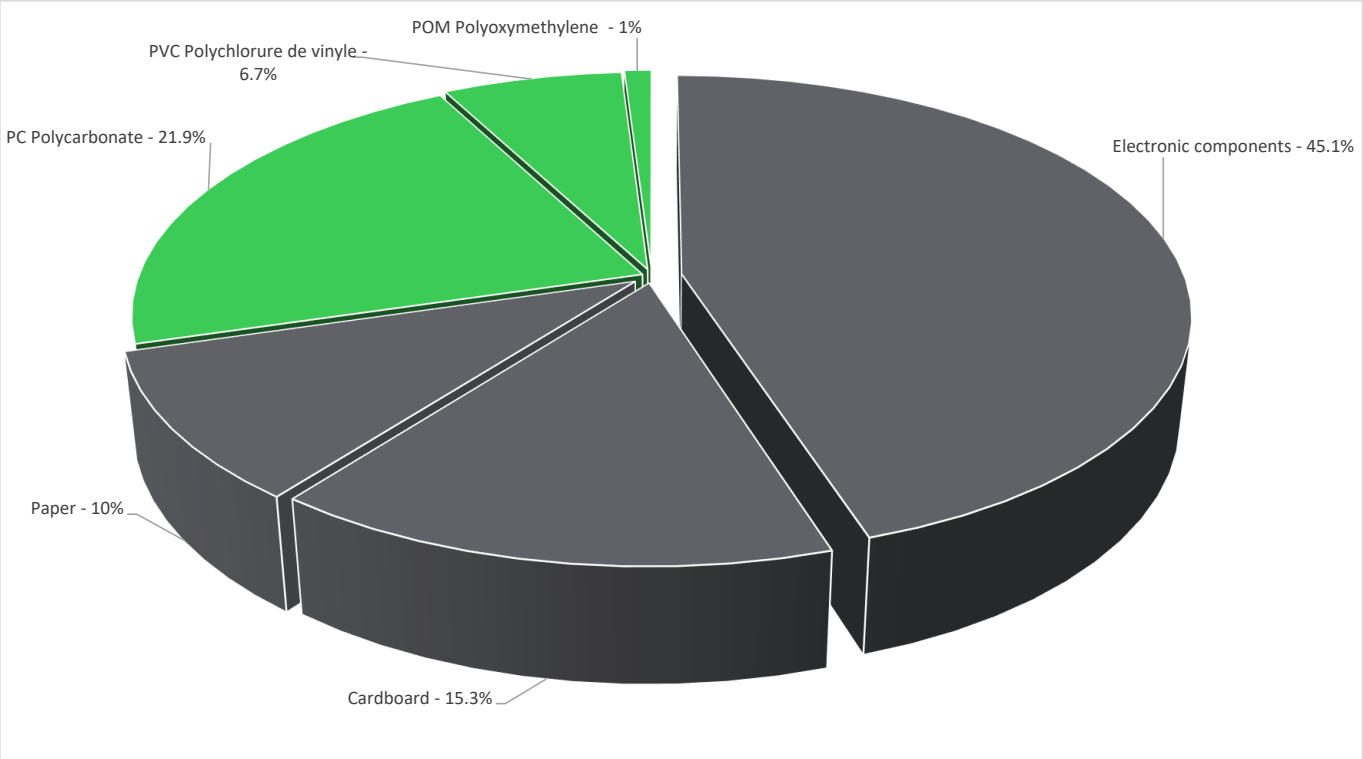
eliwell by Schneider Electric

General information

Reference product	AIR EDGE WiFi-Ethernet TTL SD 100-240V - AEBWE0T0001100
Description of the product	Air Edge is a WiFi/BLE dongle for Commercial Refrigeration, designed to ensure Internet remote connection and monitoring services on a Cloud platform. AEBWE0T0001100 is the Ethernet version of Air Edge.
Description of the range	The products of the range are: ModBus interface with WiFi, Ethernet & BLE connectivity The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To ensure Internet remote connection and monitoring services on a Cloud platform a 100% of the time for 10 years.
Specifications are:	Technical Data: RJ45 Ethernet port @ 100Mbps (sellf adaptation) ModBus RTU max.115.200 baud uSD slot for uSD card USB device 2.0 type C RTC with battery backup WiFI dual band 2.4GHz / 5GHz BLE 5.2

Constituent materials

Reference product mass	191,9 g	including the product, its packaging and additional elements and accessories



	Plastics	29,60%
	Metals	0,00%
	Others	70,40%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**3%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	The product does not require any installation operations			
Use scenario	The product is in active mode 100% of the time with a real power use of 3W, for 10 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 représentaive of the actual type of technologies used to make the product.			
Geographical representativeness	Rest of the World			
Energy model used	**[A1 - A3]** Electricity Mix; Low voltage; 2018; Italy, IT	**[A5]** Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; United States, US Electricity Mix; Low voltage; 2018; Asia Pacific, APAC Electricity Mix; Low voltage; 2018; Egypt, EG	**[B6]** Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; United States, US Electricity Mix; Low voltage; 2018; Asia Pacific, APAC Electricity Mix; Low voltage; 2018; Egypt, EG	**[C1 - C4]** Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; United States, US Electricity Mix; Low voltage; 2018; Asia Pacific, APAC Electricity Mix; Low voltage; 2018; Egypt, EG

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.schneider-electric.com/contact

Mandatory Indicators		AIR EDGE WiFi-Ethernet TTL SD 100-240V - AEBWE0T0001100						
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	1,30E+02	1,05E+01	5,94E-02	0*	1,19E+02	4,32E-01	-9,13E-03
Contribution to climate change-fossil	kg CO2 eq	1,30E+02	1,04E+01	5,94E-02	0*	1,19E+02	4,31E-01	-8,37E-03
Contribution to climate change-biogenic	kg CO2 eq	1,73E-01	2,93E-02	0*	2,47E-04	1,43E-01	8,04E-04	-7,62E-04
Contribution to climate change-land use and land use change	kg CO2 eq	3,94E-07	3,80E-07	0*	0*	0*	1,35E-08	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,93E-06	1,42E-06	0*	0*	5,14E-07	1,02E-09	-2,61E-09
Contribution to acidification	mol H+ eq	7,62E-01	7,12E-02	3,96E-04	0*	6,90E-01	3,94E-04	-6,57E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	3,23E-04	3,05E-05	0*	0*	2,65E-04	2,75E-05	-1,18E-08
Contribution to eutrophication marine	kg N eq	8,65E-02	7,79E-03	1,87E-04	1,20E-05	7,83E-02	1,52E-04	-9,76E-06
Contribution to eutrophication, terrestrial	mol N eq	1,20E+00	8,26E-02	2,05E-03	1,23E-04	1,12E+00	1,61E-03	-1,15E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2,82E-01	2,73E-02	5,20E-04	2,94E-05	2,54E-01	3,89E-04	-7,37E-05
Contribution to resource use, minerals and metals	kg Sb eq	1,33E-03	1,32E-03	0*	0*	7,33E-06	8,09E-07	-5,21E-06
Contribution to resource use, fossils	MJ	2,94E+03	1,26E+02	8,27E-01	0*	2,81E+03	6,54E-01	-1,44E-01
Contribution to water use	m3 eq	1,00E+01	5,70E+00	0*	4,50E-03	4,27E+00	3,59E-02	-3,10E-02

Inventory flows Indicators		AIR EDGE WiFi-Ethernet TTL SD 100-240V - AEBWE0T0001100						
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	5,03E+02	4,00E+00	0*	0*	4,99E+02	0*	-1,63E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	5,90E-01	5,90E-01	0*	0*	0*	0*	0,00E+00
Contribution to total use of renewable primary energy resources	MJ	5,04E+02	4,59E+00	0*	0*	4,99E+02	0*	-1,63E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,94E+03	1,24E+02	8,27E-01	0*	2,81E+03	6,54E-01	-1,44E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	2,70E+00	2,70E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2,94E+03	1,26E+02	8,27E-01	0*	2,81E+03	6,54E-01	-1,44E-01
Contribution to use of secondary material	kg	2,98E-02	2,98E-02	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	2,33E-01	1,33E-01	0*	1,05E-04	9,94E-02	8,36E-04	-7,22E-04
Contribution to hazardous waste disposed	kg	2,54E+01	2,30E+01	0*	0*	2,32E+00	9,61E-02	-4,79E-01
Contribution to non hazardous waste disposed	kg	2,03E+01	2,83E+00	2,08E-03	4,90E-02	1,74E+01	4,86E-02	-6,57E-04
Contribution to radioactive waste disposed	kg	4,62E-03	1,27E-03	1,48E-06	0*	3,35E-03	2,45E-06	-6,95E-07
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	3,90E-03	9,18E-07	0*	0*	0*	3,90E-03	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	2,79E-02	2,79E-02	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	1,56E-02

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

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 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 :	ENVPEP2407005_V1	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		Supplemented by	No PSR
Date of issue	08-2024		
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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