Product Environmental Profile

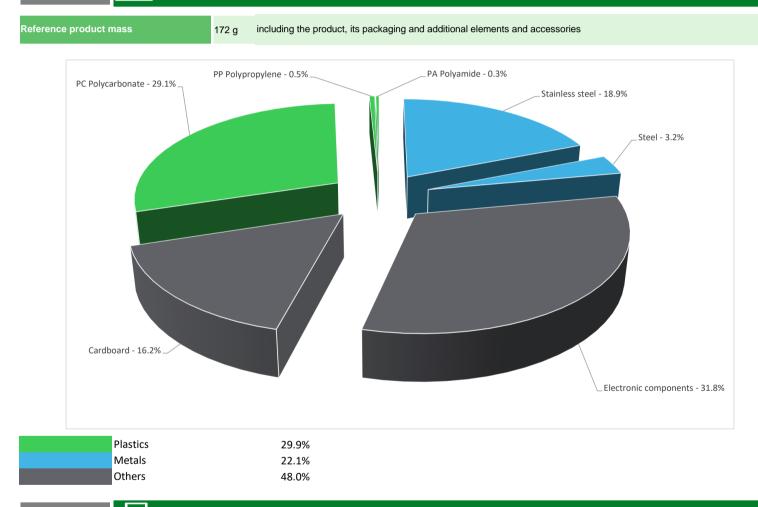
X-Bus Rack Expansion Module





General information							
Reference product	X-Bus Rack Expansion Module - BMXXBE1000						
Description of the product	This standard Backplane extender, is to extend the configuration using additional racks, users can use a bus extender module and X-bus cables. The backplane extender should be plugged into the dedicated connector on the right side of the backplane. It does not occupy any module slot to transmit data packets across two backplane at 3.3V DC over a distance of up to 100 m						
Functional unit	The X-Bus Rack Expansion Module has a long life cycle for about more than 10 years with a 100% use rate. Typical electrical power is 4W (160 mA at 24 V DC). IP degree of protection: IP20 IEC 61000-6-5, IEC 61850-3,UL 61010-2-201 CSA C22.2 No 61010-2-201						





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:		Recyclability rate components/mate calculation metho
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Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

P Environmental impacts

Reference service life time	10 years							
Product category	Other equipments - Active product							
Installation elements	The X-Bus Rack Expansion Module does not rec	uire any installation operations						
Use scenario	The product is in active mode 90% of the time with a power use of 4W and in off mode 10% of the time with a power use of 0W for 10 years							
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA- EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.							
Geographical representativeness	Europe, United States, Asia-Pacific							
	[A1 - A3]	[A5]	[B6]	[C1 - C4]				
		Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US				
Energy model used	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27				
		Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC				

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), 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			X-Bus Rack Expansion Module - BMXXBE1000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.91E+02	5.35E+00	2.25E-02	3.42E-02	1.85E+02	3.59E-01	-1.52E-01
Contribution to climate change-fossil	kg CO2 eq	1.91E+02	5.34E+00	2.25E-02	3.42E-02	1.85E+02	3.53E-01	-1.52E-01
Contribution to climate change-biogenic	kg CO2 eq	1.66E-01	9.88E-03	0*	0*	1.51E-01	5.41E-03	-3.28E-04
Contribution to climate change-land use and land use change	kg CO2 eq	6.25E-09	6.25E-09	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.57E-06	6.97E-07	0*	0*	8.60E-07	7.58E-09	-2.23E-08
Contribution to acidification	mol H+ eq	1.17E+00	3.77E-02	1.45E-04	0*	1.13E+00	3.14E-03	-8.94E-04
Contribution to eutrophication, freshwater	kg (PO4)³⁻eq	2.37E-04	1.06E-05	0*	5.90E-07	2.24E-04	1.92E-06	-2.30E-07
Contribution to eutrophication marine	kg N eq	1.34E-01	4.46E-03	6.79E-05	0*	1.27E-01	2.05E-03	-8.73E-05
Contribution to eutrophication, terrestrial	mol N eq	1.60E+00	4.76E-02	7.45E-04	0*	1.55E+00	1.72E-03	-1.02E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.37E-01	1.60E-02	1.88E-04	0*	4.20E-01	6.56E-04	-3.56E-04
Contribution to resource use, minerals and metals	kg Sb eq	6.54E-04	6.47E-04	0*	0*	6.61E-06	0*	-4.76E-05
Contribution to resource use, fossils	MJ	3.76E+03	7.00E+01	0*	0*	3.68E+03	9.28E+00	-3.48E+00
Contribution to water use	m3 eq	4.38E+01	1.36E+00	0*	0*	7.05E+00	3.54E+01	-6.27E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators				X-Bus Rack Expansion Module - BMXXBE1000					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits	
	onit		[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]	
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.88E+02	1.41E+00	0*	0*	4.87E+02	1.54E-01	-2.75E-02	
Contribution to use of renewable primary energy resources used as raw material	MJ	5.76E-01	5.76E-01	0*	0*	0*	0*	0.00E+00	
Contribution to total use of renewable primary energy resources	MJ	4.89E+02	1.99E+00	0*	0*	4.87E+02	1.54E-01	-2.75E-02	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.76E+03	6.74E+01	0*	0*	3.68E+03	9.28E+00	-3.48E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.57E+00	2.57E+00	0*	0*	0*	0*	0.00E+00	
Contribution to total use of non-renewable primary energy resources	MJ	3.76E+03	7.00E+01	0*	0*	3.68E+03	9.28E+00	-3.48E+00	
Contribution to use of secondary material	kg	4.89E-06	4.89E-06	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	1.12E+00	3.16E-02	0*	0*	1.64E-01	9.26E-01	-1.46E-03	
Contribution to hazardous waste disposed	kg	1.89E+01	1.46E+01	0*	0*	4.18E+00	1.52E-01	-3.76E+00	
Contribution to non hazardous waste disposed	kg	3.09E+01	2.26E+00	0*	3.24E-02	2.86E+01	5.88E-02	-1.23E-01	
Contribution to radioactive waste disposed	kg	4.87E-03	8.36E-04	5.62E-07	1.11E-06	4.03E-03	2.92E-06	-5.52E-05	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	3.89E-02	0*	0*	0*	0*	3.89E-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	1.66E-02	0*	0*	1.66E-02	0*	0*	0.00E+00	
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to biogenic carbon content of the associated packaging	kg de C	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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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 :	ENVPEP2310002_V1	Drafting rules	PEP-PCR-ed4-2021 09 06				
		Supplemented by	PSR-0005-ed2-2016 03 29				
Date of issue	11/2023	Information and reference documents	www.pep-ecopassport.org				
		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 Philippe Osset (SOLINNEN)							
PEP are compliant with XP C08-100-1 :2016							
The elements of the present PEP cannot be compared with elements from another program.							
Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »							

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