

# Product Environmental Profile

## SpaceLogic Controller Terminal Base TB-IO-W1-2





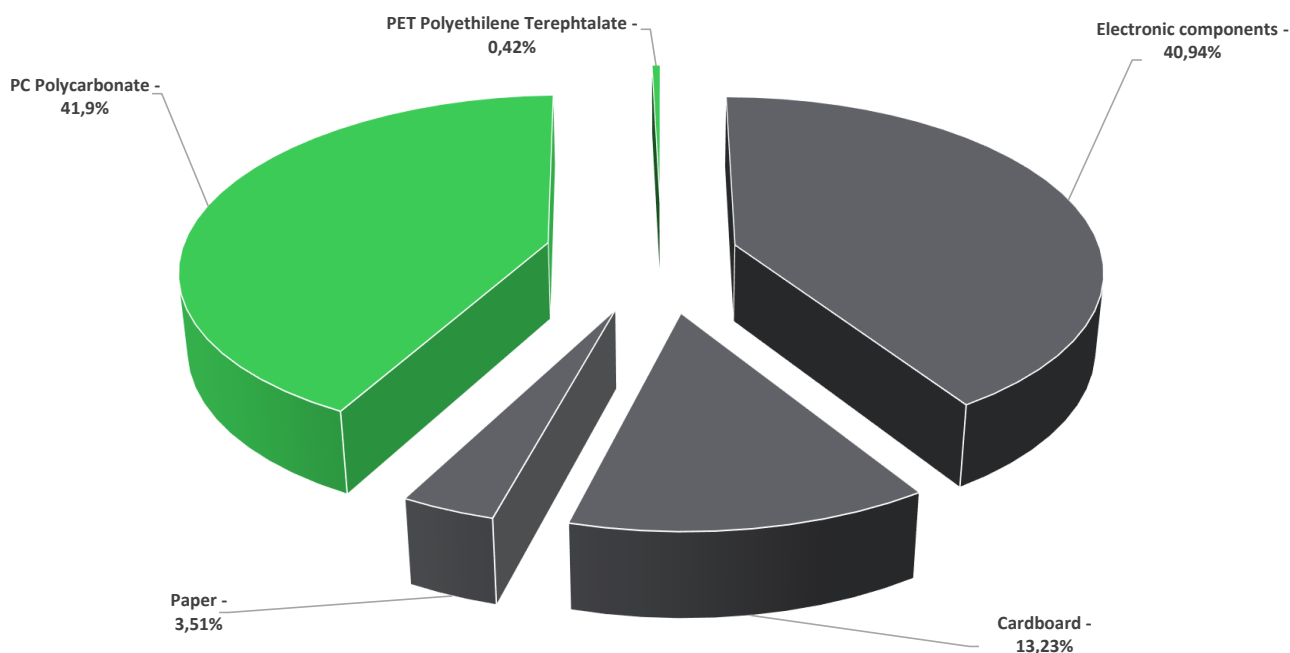
## General information

Reference product	SpaceLogic Controller Terminal Base TB-IO-W1-2 - SXWTBIOW110002
Description of the product	The SpaceLogic TB-IO-W1-2 is a terminal base for the SpaceLogic Central I/O Modules. It provides the I/O bus to the SpaceLogic Central I/O electronics module and it is required for each I/O module to allow the site to be wired prior to installation of the modules with the application program and data is supplied. It is usually installed on a wall-mounted DIN rail oriented horizontally for efficient ventilation and for making replacement of the electronics module easy. (This document describes the different stages of the product, from manufacturing to its end of life. For its end of life optimization, any dismantling or separation of parts required is carried out as mentioned in the EOLI document and in accordance with EU regulations, viz. WEEE)
Description of the range	Single product
Functional unit	To ensure data communication between I/O modules and controllers, and transmit power up to 30 W between the power supply, I/O modules, and other terminal bases, with a low power consumption of 0,06 W in active mode for 100% of the time, over a reference service life of 10 years.
Specifications are:	SpaceLogic terminal base can transceive data between I/O modules, and controllers and can transmit power upto 30W between Power Supply, I/O modules and other terminal bases.



## Constituent materials

Reference product mass	147,93 g including the product, its packaging, additional elements and accessories
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Plastics	42,32%
Others	57,68%



## 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:	0%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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).
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## 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 does not require any installation operations. It is to be mounted on a DIN rail, with DIN rail clip that comes with the product.			
Use scenario	The product operates continuously in active mode at 100% usage rate throughout its 10-year reference service life, consuming a constant power of 0,06 W. The product is mounted on a wall-mounted DIN rail without requiring special installation or maintenance operations. Its primary function includes uninterrupted data transmission between I/O modules and controllers and power transmission of up to 30W during operation.			
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.			
Final assembly site	Riga, Latvia			
Geographical representativeness	Global			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2020; Latvia, LV	Electricity Mix; Low voltage; 2020; China, CN	Electricity Mix; Low voltage; 2020; China, CN	Electricity Mix; Low voltage; 2020; China, CN
		Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; Low voltage; 2020; Europe, EU-27
		Electricity Mix; Low voltage; 2020; United States, US	Electricity Mix; Low voltage; 2020; United States, US	Electricity Mix; Low voltage; 2020; United States, US
		Electricity Mix; Low voltage; 2020; Global, GLO	Electricity Mix; Low voltage; 2020; Global, GLO	Electricity Mix; Low voltage; 2020; Global, GLO

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		SpaceLogic Controller Terminal Base TB-IO-W1-2 - SXWTBIOW110002						
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	9,30E+00	6,47E+00	1,47E-01	1,60E-03	2,31E+00	3,64E-01	0,00E+00
Contribution to climate change-fossil	kg CO2 eq	9,32E+00	6,50E+00	1,47E-01	1,08E-03	2,31E+00	3,64E-01	0,00E+00
Contribution to climate change-biogenic	kg CO2 eq	-2,71E-02	-3,08E-02	0*	0*	0*	0*	0,00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	6,40E-05	6,40E-05	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	8,66E-07	7,94E-07	6,07E-08	0*	1,09E-08	3,03E-10	0,00E+00
Contribution to acidification	mol H+ eq	5,50E-02	4,12E-02	7,94E-04	1,31E-05	1,28E-02	2,44E-04	0,00E+00
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	1,52E-05	9,56E-06	3,74E-08	4,76E-09	4,20E-06	1,40E-06	0,00E+00
Contribution to eutrophication marine	kg N eq	6,67E-03	4,67E-03	3,69E-04	6,20E-06	1,50E-03	1,16E-04	0,00E+00
Contribution to eutrophication, terrestrial	mol N eq	7,61E-02	4,97E-02	4,03E-03	6,33E-05	2,11E-02	1,23E-03	0,00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	2,33E-02	1,70E-02	1,13E-03	1,52E-05	4,86E-03	2,96E-04	0,00E+00
Contribution to resource use, minerals and metals	kg Sb eq	2,20E-04	2,20E-04	0*	0*	5,77E-07	0*	0,00E+00
Contribution to resource use, fossils	MJ	1,33E+02	7,97E+01	1,95E+00	0*	5,14E+01	4,58E-01	0,00E+00
Contribution to water use	m3 eq	1,78E+00	1,61E+00	3,78E-03	2,36E-03	1,52E-01	1,68E-02	0,00E+00

Inventory flows Indicators		SpaceLogic Controller Terminal Base TB-IO-W1-2 - SXWTBIOW110002							
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	1,34E+01	2,83E+00	1,46E-03	0*	1,06E+01	1,51E-03	0,00E+00	
Contribution to use of renewable primary energy resources used as raw material	MJ	2,10E-01	2,10E-01	0*	0*	0*	0*	0,00E+00	
Contribution to total use of renewable primary energy resources	MJ	1,36E+01	3,04E+00	1,46E-03	0*	1,06E+01	1,51E-03	0,00E+00	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,31E+02	7,68E+01	1,95E+00	0*	5,14E+01	4,58E-01	0,00E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	2,95E+00	2,95E+00	0*	0*	0*	0*	0,00E+00	
Contribution to total use of non-renewable primary energy resources	MJ	1,33E+02	7,97E+01	1,95E+00	0*	5,14E+01	4,58E-01	0,00E+00	
Contribution to use of secondary material	kg	2,28E-02	2,28E-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	4,15E-02	3,74E-02	8,80E-05	5,50E-05	3,55E-03	3,92E-04	0,00E+00	
Contribution to hazardous waste disposed	kg	3,17E+00	3,03E+00	0*	0*	8,02E-02	6,19E-02	0,00E+00	
Contribution to non hazardous waste disposed	kg	2,03E+00	1,54E+00	2,82E-03	2,54E-02	3,88E-01	6,92E-02	0,00E+00	
Contribution to radioactive waste disposed	kg	7,48E-04	6,57E-04	1,56E-05	0*	7,24E-05	2,94E-06	0,00E+00	
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to materials for recycling	kg	7,18E-07	7,18E-07	0*	0*	0*	0*	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	2,67E-06	2,67E-06	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	7,61E-03

\* 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		SpaceLogic Controller Terminal Base TB-IO-W1-2 - SXWTBIOW110002								
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to climate change	kg CO2 eq	2,31E+00	0*	0*	0*	0*	0*	2,31E+00	0*	
Contribution to climate change-fossil	kg CO2 eq	2,31E+00	0*	0*	0*	0*	0*	2,31E+00	0*	
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to ozone depletion	kg CFC-11 eq	1,09E-08	0*	0*	0*	0*	0*	1,09E-08	0*	
Contribution to acidification	mol H+ eq	1,28E-02	0*	0*	0*	0*	0*	1,28E-02	0*	
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	4,20E-06	0*	0*	0*	0*	0*	4,20E-06	0*	
Contribution to eutrophication marine	kg N eq	1,50E-03	0*	0*	0*	0*	0*	1,50E-03	0*	
Contribution to eutrophication, terrestrial	mol N eq	2,11E-02	0*	0*	0*	0*	0*	2,11E-02	0*	
Contribution to photochemical ozone formation - human health	kg COVNM eq	4,86E-03	0*	0*	0*	0*	0*	4,86E-03	0*	
Contribution to resource use, minerals and metals	kg Sb eq	5,77E-07	0*	0*	0*	0*	0*	5,77E-07	0*	
Contribution to resource use, fossils	MJ	5,14E+01	0*	0*	0*	0*	0*	5,14E+01	0*	
Contribution to water use	m3 eq	1,52E-01	0*	0*	0*	0*	0*	1,52E-01	0*	

Inventory flows Indicators		SpaceLogic Controller Terminal Base TB-IO-W1-2 - SXWTBIOW110002							
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	1,06E+01	0*	0*	0*	0*	0*	1,06E+01	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	1,06E+01	0*	0*	0*	0*	0*	1,06E+01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,14E+01	0*	0*	0*	0*	0*	5,14E+01	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	5,14E+01	0*	0*	0*	0*	0*	5,14E+01	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	3,55E-03	0*	0*	0*	0*	0*	3,55E-03	0*
Contribution to hazardous waste disposed	kg	8,02E-02	0*	0*	0*	0*	0*	8,02E-02	0*
Contribution to non hazardous waste disposed	kg	3,88E-01	0*	0*	0*	0*	0*	3,88E-01	0*
Contribution to radioactive waste disposed	kg	7,24E-05	0*	0*	0*	0*	0*	7,24E-05	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	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 v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 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 :	SCHN-01325-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH08	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	11-2024	Validity period	5 years
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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