STB NIP 2212

Product Environmental Profile

Advantys Ethernet Network Interface Module

Schneider Electric

Product Environmental Profile - PEP

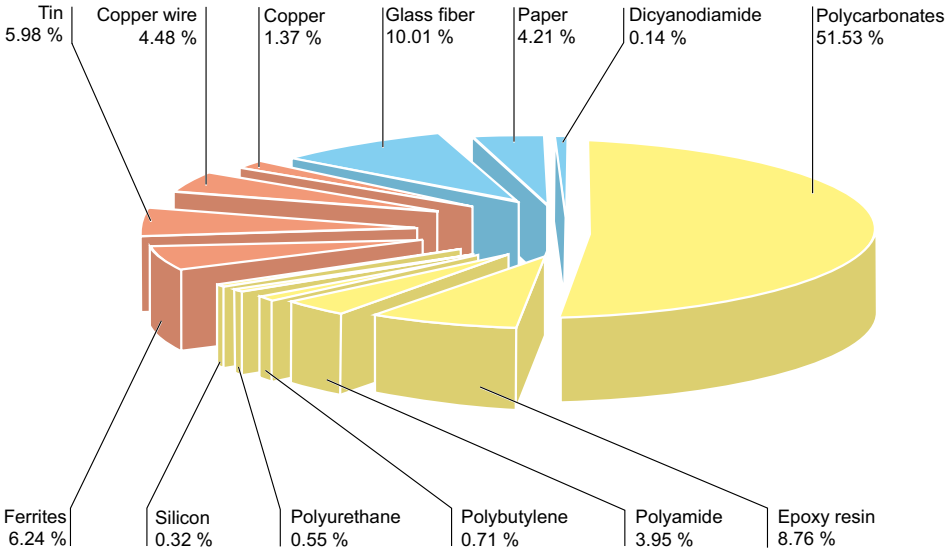
Product Overview

The STB NIP 2212 is an Ethernet Network Interface Module for the Advantys family of distributed I/O products.

This product has been designed using ECO-Design principles to assure it meets requirements while reducing its environmental impact over its life cycle.

Constituent materials

This product does not contain batteries or any substances banned by regulation in force at the time of its commercialization.
The materials used in the Manufacturing (M) of this product can be broken down as follows:



Manufacturing

This product was manufactured by Schneider Electric in France.
This manufacturing site has an Environmental Management System in accordance with ISO 14001.

Distribution

The distribution is ensured by distribution centers in Europe and America, through our subsidiaries in each country. Packaging is designed to facilitate the use of standardized containers.

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Utilisation

This product was designed to optimize energy consumption while in use. This product is soundless and produces no waste in use.

End of life

The ECO-Design program at Schneider Electric has among its objectives, the recycling optimization of its products. The proportion of recyclable materials in this product is 57%. This percentage is calculated using databases based on national averages, and on existing recycling networks.

Environmental impacts

The environmental impacts resulting from the product's life cycle where calculated by Environmental Information and Management Explorer (EIME) software for a product use life of 10 years. They take into account of the Manufacturing (M), Distribution (D), and Usage (U) phases.

Presentation of product environmental impacts

Environmental indicators		Unit	STBNIP2212 (1.000 unit)			
			S = M + D + U	M	D	U
Raw Material Depletion	**RMD**	**Y-1**	**$7.88\ 10^{-15}$**	$5.90\ 10^{-15}$	$1.51\ 10^{-19}$	$1.97\ 10^{-15}$
Energy Depletion	**ED**	**MJ**	**$2.17\ 10^{3}$**	$1.66\ 10^{2}$	$1.08\ 10^{-1}$	$2.00\ 10^{3}$
Water Depletion	**WD**	**dm^3**	**$3.79\ 10^{2}$**	84.6	$1.05\ 10^{-2}$	$2.94\ 10^{2}$
Global Warming	**GW**	**g≈CO_2**	**$1.20\ 10^{5}$**	$1.04\ 10^{4}$	9.45	$1.10\ 10^{5}$
Ozone Depletion	**OD**	**g≈CFC-11**	**$1.25\ 10^{-2}$**	$1.23\ 10^{-3}$	$6.19\ 10^{-6}$	$1.13\ 10^{-2}$
Air toxicity	**AT**	**m^3**	**$2.29\ 10^{7}$**	$2.25\ 10^{6}$	$3.49\ 10^{3}$	$2.07\ 10^{7}$
Photochemical Ozone Creation	**POC**	**g≈C_2H_4**	**43**	5.29	$1.18\ 10^{-2}$	37.7
Air Acidification	**AA**	**g≈H^+**	**18.7**	1.82	$2.24\ 10^{-3}$	16.9
Water Toxicity	**WT**	**dm^3**	**$2.44\ 10^{4}$**	$1.81\ 10^{3}$	1.08	$2.26\ 10^{4}$
Water Eutrophication	**WE**	**g≈PO^4**	**1.31**	$9.29\ 10^{-1}$	$1.59\ 10^{-4}$	$3.85\ 10^{-1}$
Hazardous Waste Production	**HWP**	**kg**	**1.68**	$1.79\ 10^{-1}$	$3.35\ 10^{-6}$	1.50

It is important to remember that the product environmental assessment must take into consideration the application or installation in which the product is included. The environmental impact values also depend on the conditions under which the product is used in the installation. These values (given in the "Presentation of the environmental impacts of the product" table) are only valid within the context specified and cannot be used directly to compile the environmental assessment of the installation.

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Glossary

Raw Material Depletion (RMD)

This indicator quantifies the consumption of raw materials during the life cycle of the product. It is expressed as the fraction of natural resources that disappear each year, with respect to all the annual reserves of the material.

Energy Depletion (ED)

This indicator gives the quantity of energy consumed, whether it be from fossil, hydroelectric, nuclear or other sources.
This indicator takes into account the energy from the material produced during combustion. It is expressed in MJ.

Water Depletion (WD)

This indicator calculates the volume of water consumed, including drinking water and water from industrial sources. It is expressed in dm^3.

Global Warming Potential (GWP)

The global warming of the planet is the result of the increase in the greenhouse effect due to the sunlight reflected by the earth's surface being absorbed by certain gases known as «greenhouse-effect» gases. The effect is quantified in gram equivalent of CO_2.

Ozone Depletion (OD)

This indicator defines the contribution to the phenomenon of the disappearance of the stratospheric ozone layer due to the emission of certain specific gases. The effect is expressed in gram equivalent of CFC-11.

Photochemical Ozone Creation (POC)

This indicator quantifies the contribution to the «smog» phenomenon (the photochemical oxidation of certain gases which generates ozone) and is expressed in gram equivalent of methane (C_2H_4).

Air Acidification (AA)

The acid substances present in the atmosphere are carried by rain.
A high level of acidity in the rain can cause damage to forests.
The contribution of acidification is calculated using the acidification potentials of the substances concerned and is expressed in mode equivalent of H^+.

Hazardous Waste Production (HWP)

This indicator calculates the quantity of specially treated waste created during all the life cycle phases (manufacturing, distribution and utilization). For example, special industrial waste in the manufacturing phase, waste associated with the production of electrical power, etc.
It is expressed in kg.

We are committed to safeguarding our planet by "Combining innovation and continuous improvement to meet the new environmental challenge".

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This document is based on ISO 14020 which relates to the general principles of environmental declarations and the ISO TR 14025 technical report relating to type III environmental declarations.
It was produced according to the instructions in the PEP drafting guide, version 4.

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