

Product Environmental Footprint

FL SWITCH 1008N - Industrial
Ethernet Switch (1085256-05)



Product overview

Narrow Ethernet switch, eight RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

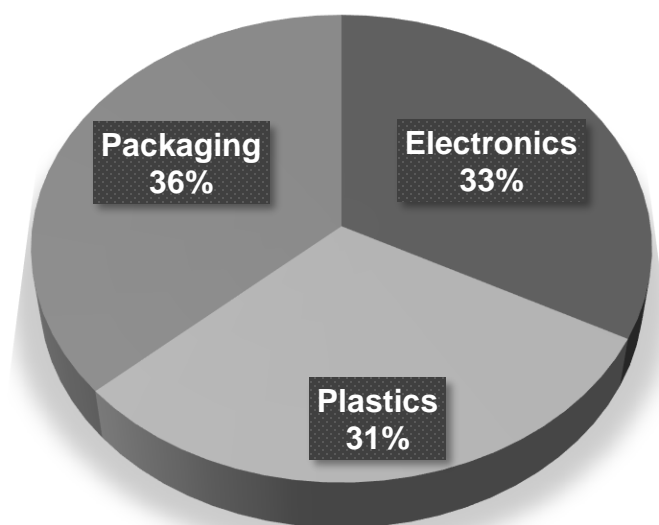
Constituent materials

Composition of used materials for production:

| Material | Share of mass (if possible) |
|-------------|-----------------------------|
| Electronics | 33% |
| Plastics | 31% |
| Packaging | 36% |

In case of negative numbers, additional semi-finished products are created besides the product.

Substance assessment



Substance assessment

Products of this range are designed in conformity with the material restrictions according to Directive 2011/65/EU (RoHS 2), including Delegated Directive 2015/863/EU. In addition, the products comply with the requirements of Annex XIV and Annex XVII under Regulation (EC) No. 1907/2006 (REACH Regulation).

Details of ROHS and REACH standard followed by Phoenix Contact

Website: [Product Compliance | Phoenix Contact](#)

Life cycle stages - Overview

Manufacturing

Our production sites are certified according to the environmental management system of DIN EN ISO 14001:2015. The focus is on resource-saving processes. In addition, the company uses 100% green electricity for manufacturing.

Use

The use phase is excluded from the system boundary and determined not to be applicable.

Distribution to Customer

The information on transport distances and means was provided by our logistics department. As a result of the logistics data, an average distance of 800 Km to the customers is assumed.

The weight and volume of the packaging have been optimized, based on the European Union 's packaging directive.

End of life

The product end of life factors is considered during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

Framework / Calculation rules

System approach

Life cycle assessment has been performed on the following life cycle phases: Upstream and Manufacturing (M), Distribution (D) and End of life (EoL). 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.

Modelling hypothesis and method:

The preparation and calculation were carried out in accordance with the current standards DIN EN ISO 14040 and DIN EN ISO 14044. Eco database and primary data were used to determine the emission factors.

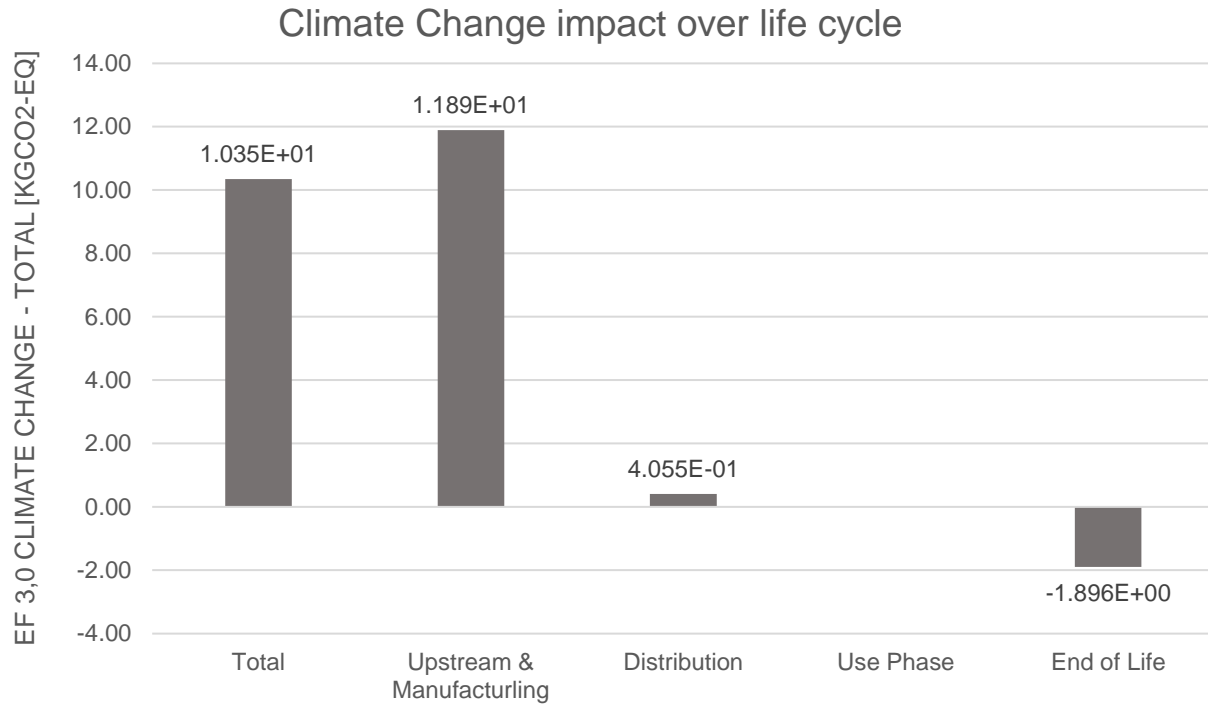
Data quality level:

Emission factors from general eco databases as well as emission factors submitted by our suppliers were used to calculate the product environmental footprint. The quality level of the calculated environmental indicators indicates how granular the results are for Phoenix Contact. The average level for the quality level of the product is calculated based on the mass balance and quality level of each component.

| Data quality level | Description |
|--------------------|---|
| 0 | No data available |
| 1 - 30 | Indicators based on average values for industries |
| 31 - 59 | Indicators based on eco-database values |
| 60 - 69 | Indicators based on individually for this product modelled information |
| 70 - 79 | Indicators based on supplier values |
| 80 - 100 | Indicators based on primary supplier values including a third-party certification |

Results

| Environmental indicators: | Unit | Total | Upstream + Manufacturing | Distribution | Use | End of Life |
|---|-----------------------|-----------|--------------------------|--------------|-----|-------------|
| Acidification | mol H+ Eq | n/c | n/c | n/c | n/a | n/c |
| Climate Change Global Warming Potential | kg CO2 Eq | 1.035E+01 | 1.189E+01 | 4.055E-01 | n/a | -1.896E+00 |
| Climate Change Biogenic | kg CO2 Eq | n/c | n/c | n/c | n/a | n/c |
| Climate Change Fossil | kg CO2 Eq | 1.035E+01 | 1.189E+01 | n/c | n/a | n/c |
| Climate Change Land Use And Land Use Change | kg CO2 Eq | n/c | n/c | n/c | n/a | n/c |
| Ecotoxicity Freshwater | CTUe | n/c | n/c | n/c | n/a | n/c |
| Energy Resources Non Renewable | MJ | n/c | n/c | n/c | n/a | n/c |
| Eutrophication Freshwater | kg PO4 Eq | n/c | n/c | n/c | n/a | n/c |
| Eutrophication Marine | kg N Eq | n/c | n/c | n/c | n/a | n/c |
| Eutrophication Terrestrial | mol N Eq | n/c | n/c | n/c | n/a | n/c |
| Human Toxicity Carcinogenic | CTUh | n/c | n/c | n/c | n/a | n/c |
| Human Toxicity Non Carcinogenic | CTUh | n/c | n/c | n/c | n/a | n/c |
| Ionising Radiation Human Health | kBq U235 Eq | n/c | n/c | n/c | n/a | n/c |
| Land Use | dimensionless | n/c | n/c | n/c | n/a | n/c |
| Material Resources Metals Minerals | kg Sb Eq | n/c | n/c | n/c | n/a | n/c |
| Ozone Depletion | kg CFC-11 Eq | n/c | n/c | n/c | n/a | n/c |
| Particulate Matter Formation | Disease incidence | n/c | n/c | n/c | n/a | n/c |
| Photochemical Ozone Formation Human Health | kg NMVOC Eq | n/c | n/c | n/c | n/a | n/c |
| Water Use | m3 world eq. deprived | n/c | n/c | n/c | n/a | n/c |
| Data Quality level: climate change | | 30 | | | | |



Glossary

Climate Change / Global Warming (GW) 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 CO₂.

n/a (not applicable) n/a means not applicable. If we do not have emission factors for environmental indicators, process emissions are not quantifiable, or lifecycle phase excluded from the system boundary the results table indicates n/a.

n/c (not calculated) n/c means not calculated. If environmental indicators could not be calculated, e.g., due to non-existing emission values or missing information, n/c was used.

Definitions and information on the other environmental indicators can be found on the page of the European Platform on Life Cycle Assessment: https://eplca.jrc.ec.europa.eu/LCDN/EF_archive.xhtml

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| Verifier accreditation not required | More information www.phoenixcontact.com |
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