



SHF Communication Technologies AG

the bandwidth company

HUB8 – Fast Ethernet Hub for Industrial Ethernet



EtherControl

The Hub8 is a fast 8-port hub especially designed for fast industrial networks like Ethernet Powerlink.

All ports feature auto-cross-over (MDI/MDI-X) and 10/100Mbit operation.

Two status LEDs for link and data per port.

A status LED for collision detection indicates network errors.

For DIN-Rail mount and power-supply range from 12 to 24V DC.

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1. General Description

The Hub is optimized for industrial Networks operating in half-duplex mode. No buffering and switching between the ports is done. All packets received on one port are directly send to all other ports. In case of reception of more than one packet at the same time a collision occures which is indicated by an LED.

2. Electrical Characteristics

All ports support Ethernet 10 Mbit (10Base-TX) or 100 Mbit (100Base-TX) at half and full duplex. All ports must be operated at the same speed. The cabling is standard CAT5 twisted pair with RJ-45 connectors, shielded cable (STP) is recommended for industrial environments.

All ports have an automatic polarity detection (Auto-Cross-Over MDI/MDI-X) allowing the use of Patch Cables as well as crossed cables.

2.1 Power Supply

The Hub needs a power supply of 12-24V DC $\pm 10\%$ with 0.7A max. (all ports connected and operating in half duplex).

Maximum Ratings:

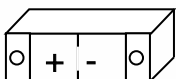
Vcc min. = 9.0V

Vcc max. = 29.0V

Icc max. = 0.7A

Power consumption = 7.3W max.

Voltage [V]	Current typ. [A]	Current max. [A]
9V	0.5	0.7
12V	0.4	0.5
24V	0.25	0.3
29V	0.2	0.25



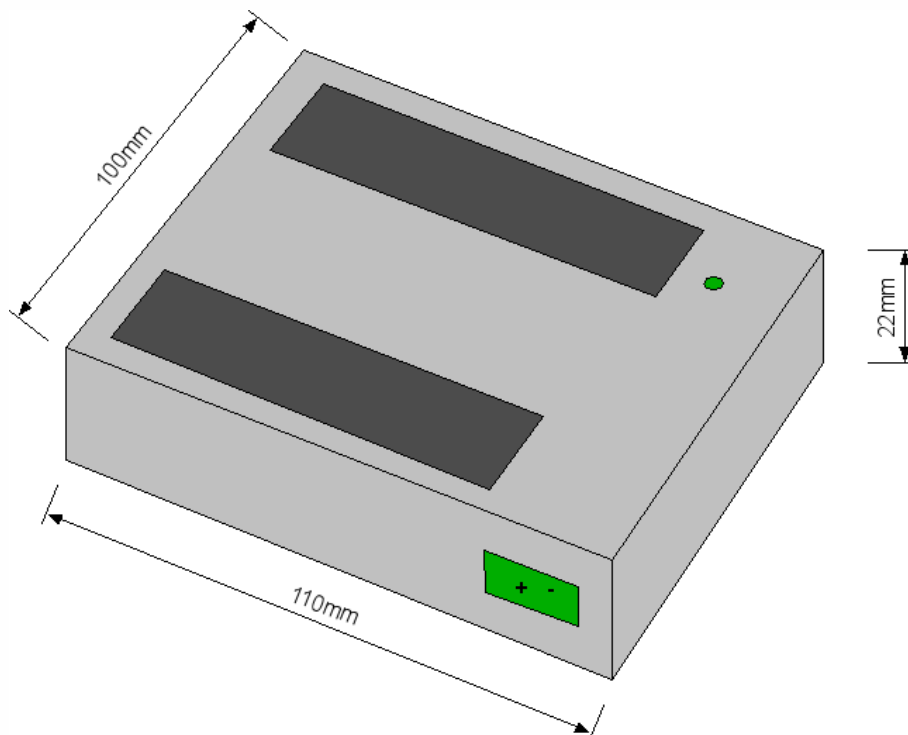


3. Environmental Characteristics

Operating Temperature: 0°C - +55°C, ambient with natural convection
Storage Temperature: -20°C - +125°C
Relative humidity: 5 - 95% non condensing
Atmospheric pressure: 86 - 108 hPa
RoHS compliant
CE conform
ESD and EMC conform according to EN61000

4. Mechanical Specification

Dimension: 110mm x 100mm x 32mm
Mounting: DIN-Rail mount
Case material: Steel, zinc coated
Weight: 350g



Dimension without DIN-Rail-Clip, Clip at bottom adds 10mm