

FLEXtra SLIM Ethernet-Switch 16-Port, unmanaged, 100 Mbps (700-842-16S01)

Version 1 for HW-Version 1

Application area

The Helmholz „FLEXtra SLIM Ethernet-Switch 16-Port, unmanaged, 100 Mbps“ is suitable for installation on a DIN rail and connects up to 16 Ethernet participants with 10 or 100 Mbps. The FLEXtra SLIM Ethernet-Switch is suitable for PROFINET networks. The LLPD (neighborhood detection) and PTCP (time synchronization) functions are handled correctly with the switch in accordance with the PROFINET standard. The FLEXtra SLIM Ethernet-Switch thus complies with PROFINET Conformance Class A.

Connections

The FLEXtra SLIM Ethernet-Switch has 16 RJ45 connectors (X1 P1 – X1 P16). The switch must be supplied with 24 V DC at the wide range input "Ext. V DC 18...30 V" via the supplied connector plug. The connection (FE, ⚡) is for the functional earth. Connect this properly to the reference potential.

Features

- Store-and-Forward architecture
- 10Base-T/100Base-TX
- Full-/Half-Duplex
- Autonegotiation
- Auto MDI/MDI-X (IEEE 802.3u Auto crossover support)
- LLDP & PTCP Delay-Traffic blocking (for PROFINET networks)
- PROFINET Conformance Class A
- QoS-Priority Queues: 2 per port
- 2K MAC address lookup table
- 1024K bits packet buffer memory
- Max. forwarding packet length 1552 bytes

LEDs

PWR Led On = Power supply present
 Off = No voltage or the device is defective

RJ45 LEDs

Orange (Link/Activity):	On = Connected	Blinks = Data transmission
Green (Speed):	On = 100 Mbps	Off = 10 Mbps



Attention: If the device is used in a manner not specified by the manufacturer, the protection provided by the device may be affected. Pay special attention to the correct contact during cable installation. If you have problems, always read the latest documentation first, which can be found on the Internet at www.helmholz.com. Connected circuits shall meet the requirements of Limited energy circuits acc. UL61010-1.

Technical data

Order no.	700-842-16501
Name	FLEXtra SLIM Ethernet-Switch 16-Port, unmanaged, 100 Mbps
Scope of delivery	Ethernet 16-port switch with power supply plug
Dimensions (DxWxH)	55 mm x 45 mm x 157 mm (without connector)
Weight	approx. 320g
LAN interface (X1)	
Number	16
Connection	RJ45
Transmission rate	10/100 Mbps
Type	10/100Base-T/TX, Full/Half-Duplex, Autonegotiation, Auto MDI/MDI-X; IEEE Auto crossover; LLDP & PTCP Delay-Traffic blocking (for PROFINET networks)
Status indicator	
Power display	1 LED, green
Ethernet status	16 LEDs, orange/green
Power supply	
Voltage supply	24 V DC (18...30 V DC)
Current draw	max. 200 mA at 24 V DC
Power loss	max. 4,9 W
Ambient conditions	
Ambient temperature	0 °C ... +60 °C
Transport and storage temp.	-40 °C ... +85 °C
Relative air humidity	95% r H without condensation
Pollution degree	2
Protection rating	IP20
Approvals	CE

Note:

The contents of this document have been checked by us for matching with the hardware and software described. However, we assume no liability for any existing differences, as these cannot be fully ruled out. The information in this document is, however, updated on a regular basis. When using your purchased products, please make sure to use the latest version of the document, which can be viewed and downloaded on the Internet at www.helmholz.de.