



Ethernet Switch Ha-VIS eCon 4000

Ethernet Switches, unmanaged,
for flat wall mounting

General Description

The Fast Ethernet Switches of the product family Ha-VIS eCon 4000 are recommended for use in the widest range of industrial applications and support both Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s). The product family enables the connection of up to 8 network devices over Twisted Pair cables.

The robust M12 interface shows its advantages especially in applications at risk of vibrations.

The Ha-VIS eCon 4000 Ethernet Switch product family, with its integrated LEDs, supports fast and easy network diagnosis. The eCon Ethernet Switch operates as an unmanaged Switch in Store and Forward Switching Mode and supports Auto-crossing, Auto-negotiation and Auto-polarity.

Features

- Ethernet Switch according to IEEE 802.3
- Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s)
- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward Switching Mode, non blocking
- Diagnostic LEDs (Link status, Data, Power)
- Mounting onto wall, optionally onto top-hat mounting rail
- PoE support (Ha-VIS eCon 4080-BPoE1)

Advantages

- Robust metal housing and flat housing style
- EMC, temperature range and mechanical stability meet the highest demands
- Wide range for power supply input
- Additional type test according to EN 50 155 and EN 50 121-3-2

Application fields

- Railway applications
- Industrial automation
- Automotive industry
- Wind power

Technical characteristics

Ethernet interface

Number of ports	8x 10/100Base-T(X)
Cable types according to IEEE 802.3	Shielded Twisted Pair (STP) or Unshielded Twisted Pair (UTP), Category 5
Data rate	10 Mbit/s or 100 Mbit/s
Maximum cable length	100 m (Twisted Pair; with Category 5 cable acc. to DIN EN 50173-1)
Termination	M12. D-coding
Diagnostics (via LED, per port) Link	• Status Link – ON • Data transfer (Act) – flashing • Data transfer rate (Speed) – 100 Mbit/s: Yellow / 10 Mbit/s: Green
PoE (Ha-VIS eCon 4080-BPoE1)	• no PoE device – OFF • PoE device connected – Green • PoE device with failure – Red
Topology	Line, Star or mixed

Power supply

Input voltage	24 / 48 V DC (12 ... 60 V DC)
Termination	M12 A-coding, male, for redundant power supply
Diagnostics (via LED)	Power supply

for Ha-VIS eCon 4080-BPoE1 only:

Input voltage							
Ha-VIS eCon 4080-BPoE1 mode PoE	48 V DC (46 ... 55 V DC)						
mode non PoE	24 / 48 V DC (12 ... 55 V DC)						
Diagnostics (via LED)	<table> <tr> <td>Pwr X9 (switch)</td><td>Power supply – Green</td></tr> <tr> <td>Pwr PoE (mode PoE)</td><td>> 46 V DC – Green</td></tr> <tr> <td>State</td><td>< 46 V DC – Red</td></tr> </table>	Pwr X9 (switch)	Power supply – Green	Pwr PoE (mode PoE)	> 46 V DC – Green	State	< 46 V DC – Red
Pwr X9 (switch)	Power supply – Green						
Pwr PoE (mode PoE)	> 46 V DC – Green						
State	< 46 V DC – Red						

Design features

Housing material	Metal (powder coated)
Dimensions (W x H x D)	130 x 166 x 50 mm
Degree of protection acc. to DIN 60529	IP 40 / IP 30 (Ha-VIS eCon 4080-BPoE1 only)
Mounting	Wall mounting, flat
Weight	approx. 0.85 kg

Environmental conditions

Operating temperature	–40 °C ... +70 °C
Storage temperature	–40 °C ... +85 °C
Relative humidity	10 % ... 95 % (non-condensing)

Ethernet Switch
Ha-VIS eCon 4080-B1
8-port Ethernet Switch for flat installation



Unmanaged	IP 40	PROFINET compatible ☒	EtherNet/IP compatible ☒
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Number of ports, Copper / Termination 8x 10/100Base-T(X) / M12 D-coding

Input voltage / Termination 24 / 48 V DC / M12 A-coding, male, for redundant power supply
Permissible range (min/max) 12 V ... 60 V DC
Input current approx. 150 mA (at 24 V DC)

Housing material Metal (powder coated)
Dimensions (W x H x D) 130 x 166 x 50 mm
Weight approx. 0.85 kg
Operating temperature -40 °C ... +70 °C
Approvals ☐ e1
MTBF 1 544 000 h

Identification	Part number	Drawing	Dimensions in mm
Ha-VIS eCon 4080-B1 Ethernet Switch with 8 ports M12 D-coding for wall mounting	20 77 208 3001	Technical drawing of the Ha-VIS eCon 4080-B1 Ethernet switch. The drawing includes a side view showing a width of 50 mm and a depth of 63.7 mm. The front view shows a rectangular unit with 8 ports (X1-X8) and a power input (X9). Dimensions for the front view are: width 130 mm, height 166 mm, and port spacing dimensions of 93 mm, 110 mm, and 120 mm. A mounting bracket is shown on the right side with a width of 6.3 mm.	

Ethernet Switch

Ha-VIS eCon 4080-B3

8-port Ethernet Switch (110 V DC) for flat installation



eCon 4000

Unmanaged	IP 40	PROFINET compatible ☒	EtherNet/IP compatible ☒
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Number of ports, Copper / Termination	8x 10/100Base-T(X) / M12 D-coding
Input voltage / Termination	72 / 110 V DC / M12 A-coding, male, for redundant power supply
Permissible range (min/max)	50.4 V ... 137.5 V DC
Input current	approx. 40 mA (at 110 V DC)
Housing material	Metal (powder coated)
Dimensions (W x H x D)	130 x 166 x 50 mm
Weight	approx. 0.85 kg
Operating temperature	−40 °C ... +70 °C
MTBF	1 183 000 h

Identification	Part number	Drawing	Dimensions in mm
Ha-VIS eCon 4080-B3 Ethernet Switch with 8 ports M12 D-coding for wall mounting	20 77 208 3003		

Ethernet Switch
Ha-VIS eCon 4080-BPoE1
8-port Ethernet Switch with Power over Ethernet



Unmanaged	IP 30	PROFINET compatible ☒	EtherNet/IP compatible ☒
Number of ports, Copper / Termination 8x 10/100Base-T(X) / M12 D-coding PoE supports 8 ports			
Mode PoE Input voltage / Termination 48 V DC / M12 A-coding, male Permissible range (min/max) 46 V ... 55 V DC Input current max. 3.0 A (at 48 V DC, load 350 mA per port)			
Mode Non-PoE Input voltage / Termination 24 / 48 V DC / M12 A-coding, male, for redundant power supply Permissible range (min/max) 12 V ... 55 V DC Input current approx. 150 mA (at 24 V DC)			
Housing material Metal (powder coated) Dimensions (W x H x D) 130 x 166 x 50 mm Weight approx. 0.85 kg Operating temperature -40 °C ... +70 °C			

Identification	Part number	Drawing	Dimensions in mm
Ha-VIS eCon 4080-BPoE1 Ethernet Switch with 8 ports M12 D-coding for wall mounting	20 77 208 3009		