HARTING

Pushing Performance

HARTING Ha-VIS eCon 2050/2080 ix Industrial®

Compact. Robust. Efficient.

People | Power | Partnership

Ha-VIS eCon 2000GX-I-A
Full Gigabit Ethernet

5 and 8 Ethernet ports ix Industrial®
Unmanaged Plug & Play Ethernet Switch for DIN rail assembly in control cabinets

- Robust and miniaturised Ethernet interface ix Industrial®
- Full gigabit Ethernet, non-blocking switch architecture acc.to IEEE 802.3
- Support of Jumbo Frames up to 10 kbytes
- High performance CPU and packetbuffer of 4 Mbit
- Optimized for imaging processes and other data intensive application
- Industrial temperature range of -40°C ... +70 °C
- Robust Design for industrial environments
- Wide range voltage supply 24/48 VDC
- Surge protection and reverse polarity protection
- Optimised DIN rail bracket

Target markets

Machinery & Robotics	Automation technology	Industrial network infrastructures
Wind Energy Solar Energy	Transportation	Shipbuilding

General Description

The unmanaged Ethernet Switches of the Ha-VIS eCon 2000GX-I-A Full Gigabit family have 5 or 8 ix Industrial® Ethernet ports.
Owing to the extremely flat design, these switches can be accommodated in installations where space is restricted towards the cable connection at the front.
The Ethernet ports are equipped with the standardized HARTING ix Industrial® interface, which offers a more robust and miniaturized Ethernet interface with Cat. 6A performance compared to RJ45. These switches offer the support of extra-long Ethernet frames (Jumbo Frames) and the transmission takes place simultaneously on all ports without overbooking.
The high performance of the Switch fits best for imaging and other data-intensive applications.
The Ha-VIS eCon 2000GX-I-A switches allow for cost-efficient and quick expansion and/or reconstruction of network infrastructures with high bandwidth demands. Automatic detection of the transmission rate (auto-negotiation) and of the wiring of the twisted pair data cable (autopolarity and auto-MDI(X)) allow for simple plug & play.

Technical characteristics

Switch Features

Enclosures width	**52.4 mm**	
Number of ports	5	8
Switching technology	Store and Forward	
Supported standards	IEEE 802.3	
Frame Size	10 kbytes	
MAC table size	8k entries	
Packet buffer size	4 Mbit	
MTBF	in preparation	
Non-blocking	Yes	
Quality of service	Yes	
PROFINET compatible	Yes	
EthernetIP compatible	Yes	

Ethernet Ports 10BASE-Te / 100BASE-TX EEE / 1000BASE-T EEE

Connection type	ix Industrial® (IEC 61076-3-124)
Auto-negotiation	Yes
Auto-polarity	Yes
Auto-MDI(X)	Yes
Transfer conditions	Twisted Pair
Transfer speed	10 / 100 / 1000 Mbit/s
Transfer length	100 m (twisted pair, Cat 5)

Voltage supply

Nominal voltage	24 VDC ⎓	48 VDC ⎓
Permissible voltage range	9 VDC ... 60 VDC ⎓	
Surge protection	Yes	
Reverse polarity proof	Yes	
Starting current	1.2 A	2.7 A
Overcurrent protection at input	4 A	
Current consumption @ 24 VDC	130 mA	190 mA
Max. power consumption @ 24 VDC	3.1 W	4.6 W
Cross-section / Wire gauge	0.14 mm^2 ... 1.5 mm^2 (30 AWG ... 14 AWG)	
Connection type	3-pole, pluggable and screwed Push-in contact	
Pinout	+ / - / ⏚	
Supply circuit (acc. to 60950)	SELV (circuit breaker 10 A)	

Enclosures

Enclosures width	**52.4 mm**
Dimensions H x W x D (without pluggable screw contact and holding bracket)	113.5 mm x 52.4 mm x 26.2 mm
Weight	151 g / 163 g
Type of installation	35 mm DIN rail acc. to EN 60 715
Material enclosures	Anodised aluminium
Protection degree (with plugged Screwed Push-in contact)	IP30
Pollution degree	2
Overvoltage category	**II**

Status and diagnostic displays

Power („Pwr“) lights up green	Supply voltage is applied
Link/Activity („L/A“) off	No link
Link/Activity („L/A“) lights up green	Link is active
Link/Activity ("L/A") flashes green	Link is active and data is transferred

Ambient conditions

Industrial temperature range	-40 °C ... +70 °C
Storage temperature range	-40 °C ... +85 °C
Relative humidity (operation)	0 % ... 95 % (not-condensing)
Relative humidity (storage and transport)	0 % ... 95 % (not-condensing)
Air pressure (operation)	2000 m (795 hPa)

find more information about Industrial System cable

Approvals
CE

Pending Approvals:
UL61010-2-201, DNV GL, E1 (R118)
Additional Approval on request

EMC and environmental conditions
EMC Interference immunity (EN 61000-6-1, 61 000-6-2 55024)
Electrostatic discharge (ESD) EN 61 000-4-2
Electromagnetic field EN 61 000-4-3
Rapid transients (burst) EN 61 000-4-4
Surge voltages EN 61 000-4-5
Conducted interference voltages EN 61 000-4-6

EMC Interference emission (EN 61000-6-4, EN 55 032, FCC CFR 47 Part 15)

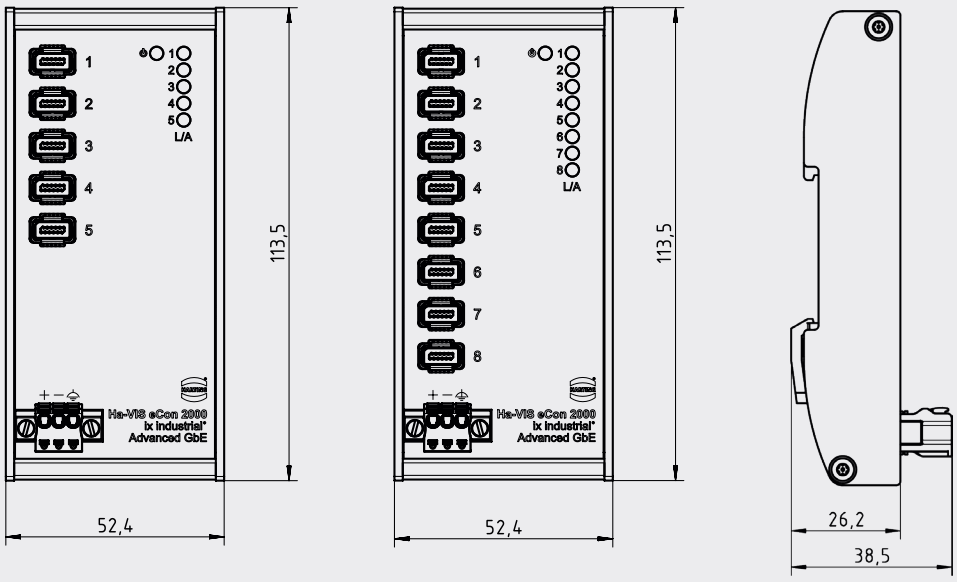
Mechanical stability (EN 60721-3)
IEC 60068-2-6 Vibration
IEC 60068-2-6 Vibration resonance search
IEC 60068-2-27 Shock test

Included in delivery
- Pluggable and screwable Push-in contact for voltage supply
- Assembly instruction

Technical characteristics / order information

Switch	Part no.
Ha-VIS eCon 2050GX-I-A, 5 port unmanaged Gigabit Switch with ix-Industrial interface	24 14 405 0000
Ha-VIS eCon 2080GX-I-A, 8 port unmanaged Gigabit Switch with ix-Industrial interface	24 14 408 0000
Wall mount variants on request	

Drawings



HARTING Technology Group
P.O.Box 1473, D-32325 Espelkamp
Wilhelm-Harting-Straße 1, D-32325 Espelkamp, Germany

ICPN-Service@Harting.com | Service hotline: +49 5772 47-9479
Fax: +49 5772 47-495 | www.HARTING.com/DE/en-gb/solutions/unmanaged-ethernet-switches

Pushing Performance

HARTING.com –
the gateway to your
country website.

HARTING Technology Group
info@HARTING.com
www.HARTING.com

2019-11-08 only PDF Version 1