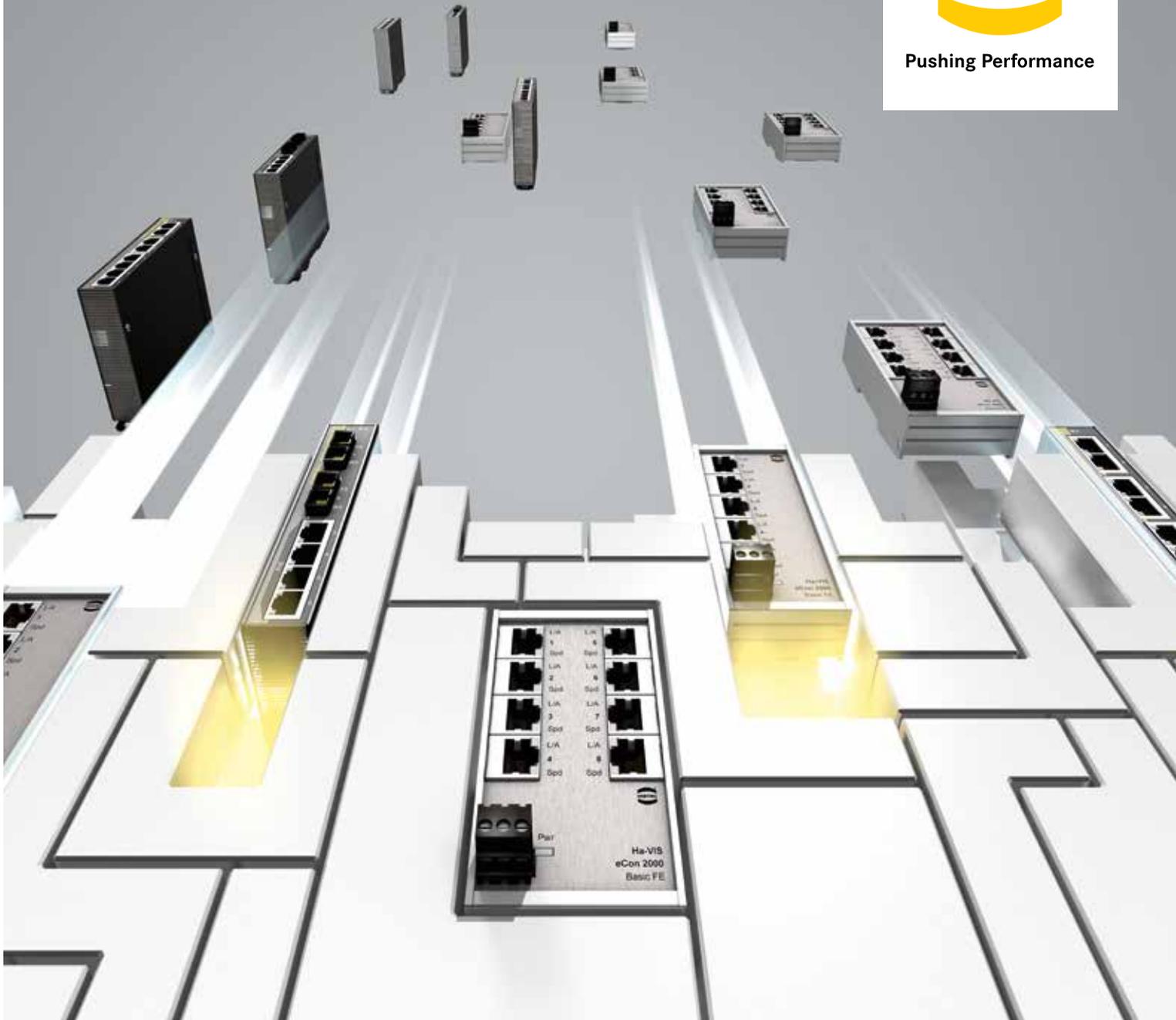




Pushing Performance



HARTING Ha-VIS eCon Ethernet Switches

Versatile. Compact. Efficient.

Our switches fit in everywhere. Especially when it comes to your challenges.

Networks in modern production facilities are becoming increasingly complex. The unmanaged switches from the Ha-VIS eCon series now offer you more than 200 new models with RJ45 and fiber optic cable ports to enable the efficient setup and expansion of your Ethernet networks. The Ha-VIS eCon 2000 and 3000 families allow you to react optimally to every spatial and application situation.

Slim design, broad range of possible applications: the Ha-VIS eCon 3000 family

Unmanaged Ethernet switches from the Ha-VIS eCon 3000 family feature up to 10 Fast Ethernet ports and offer economical and fast options to expand or set up network infrastructures. Full Gigabit Switches are available with up to 7 ports for applications with high data throughput. The slim design of the switches also allows them to be positioned on the carrier rail with a very high packing density. Thanks to the DIN rail that is integrated in the housing, the switches' can be swiftly and simply installed in the field, which consequently helps save money and time.

Flat design, highest satisfaction: the Ha-VIS eCon 2000 family

The unmanaged Ethernet switches from the Ha-VIS eCon 2000 family offer up to 16 Fast Ethernet ports and are also available in a 7-port Full Gigabit version. This allows customers to expand or setup network infrastructures in a time-saving, economical way. Owing to the extremely flat design, the switches can also be accommodated in installations where space is restricted towards the cable connection at the front. RJ45 and FOC ports are located on the front of the switches, allowing cables to be connected quickly and simply. In combination with the flat design, this is genuinely unique.



Unique variety. Convincing advantages.

The unmanaged switches from the Ha-VIS eCon series offer a broad range of models and a multitude of advantages. The seven most important key features are:



Slim design

The Ha-VIS eCon 3000 family switches are just 25 mm wide. Thanks to this compact design, they can be installed with a very high packing density in the control cabinet.



Flat design

With a depth of 27 mm, the switches from the Ha-VIS eCon 2000 family are ideal for control cabinets with a low installation depth – while offering uncompromising performance.



Industrial temperature range –40 to +70 °C

All models in the Ha-VIS eCon families are available with an extended temperature range from -40 to +70 °C for industrial applications. As a more economical alternative, C-temp versions are available for the range from 0 °C to +55 °C.



Full Gigabit Ethernet

Data volumes in industry are constantly on the rise. A data transfer rate of 1000 Mbit/s simultaneously on all ports and full support from jumbo frames ensure future-proof positioning for applications with high data throughput.



PoE+

Power over Ethernet allows power to be supplied to end devices directly via the Ethernet data cable. The PoE+ standard of our switches (IEEE 802.3at) provides up to 4 x 34.2 watts for end devices.



PoE+ with internal 24V DC/DC voltage converter

Our switches with integrated DC/DC converter allow the use of PoE+ with a switch supply voltage of 24 V DC. This saves time and cost expenditures for cabling and also eliminates an additional power supply.



Energy Efficient Ethernet

With intelligent regulation of the power consumption when there is low data activity and reduced heat development, Ha-VIS eCon switches reduce energy consumption by up to 50 %.

Flexible energy transmission. Matched by low consumption.

Power over Ethernet (PoE) is a standard for the parallel transfer of energy and data using twisted pair cables. With the PoE+ standard, our switches offer more power for optional end devices. The portfolio includes switches with a 54 V supply voltage and models with integrated voltage converter. These allow the use of standard 24 V power supplies. The Ha-VIS PoE switches consequently reduce the cabling effort, while saving time and money.

Greater performance with PoE+

Switches in accordance with the PoE Standard IEEE 802.3af provide power of up to 15.4 W for an end device. With the available PoE+ standard (IEEE 802.3at), we were able to increase this to 34.2 W and considerably increase the variety of possible applications as a result. The Ha-VIS eCon models allow up to 4 Ethernet switch ports to be used simultaneously for the energy supply. Important: All devices are developed in accordance with the current PoE+ standard and are 100% backwards compatible.

Greater flexibility with DC/DC converter

Switches with an integrated DC/DC converter allow the use of 24 V DC standard energy sources. Consequently, it is possible to eliminate a separate energy source for the end devices, as well as reducing complex cabling - saving time and expenditures.

The performance data

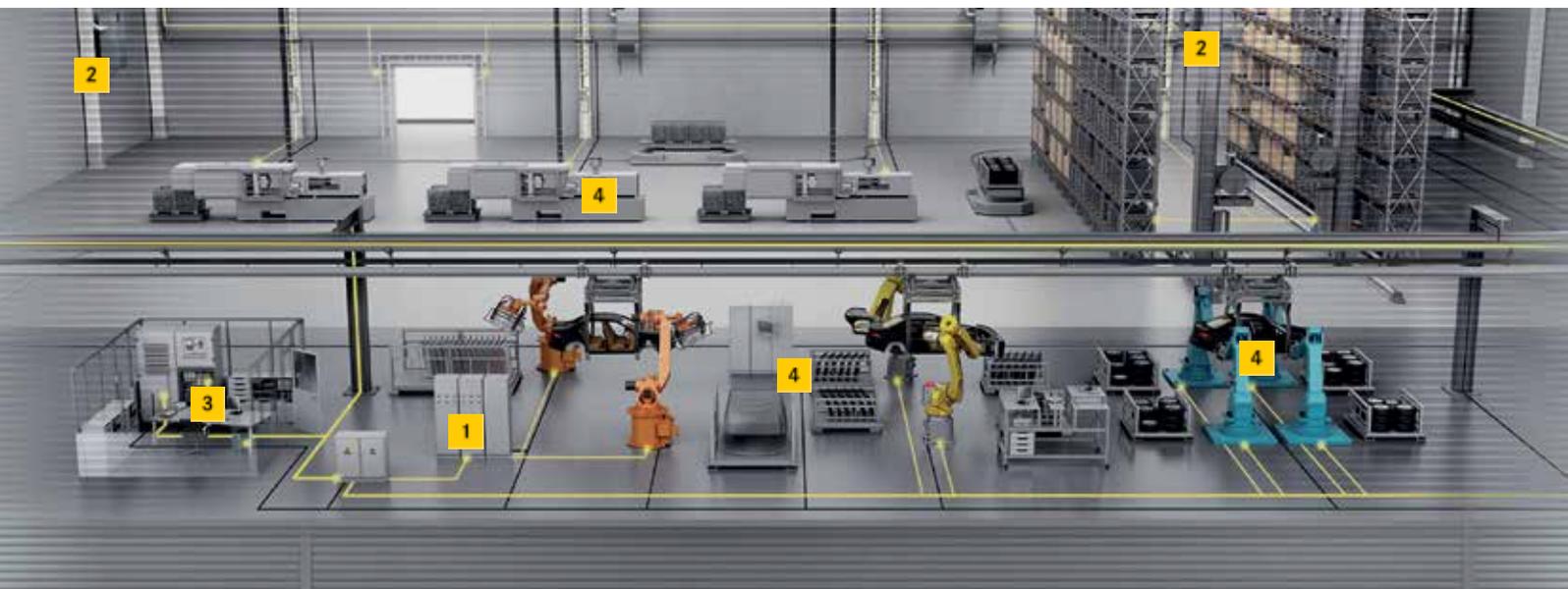
- Data and energy transmission over the same twisted pair cables
- Up to 34.2 W output in accordance with the IEEE 802.3at Standard (PoE+) per port. A total of approx. 136 watts.
- Suitable for a variety of end devices, such as cameras, IP telephones, RFID readers or WLAN access points.
- Up to 4 switch ports can be used simultaneously for the power and data supply.
- Thanks to the internal DC/DC converter, external voltage sources with 24 V direct voltage can be connected for the supply.

Your advantages in brief

- The cabling requires less time, costs and space.
- You gain greater flexibility for connecting end devices and expanding your network.
- You can eliminate additional components such as power supplies.
- Energy-efficient design without fans.



As diverse as our portfolio: Your application areas.



Ha-VIS eCon switches can ensure an efficient exchange of energy and data in countless applications: From wind and solar energy systems to buses and ships and all the way through to industrial automation. The automation area in particular offers a multitude of possible uses that take advantage of the full potential that these devices offer.

1 Smart control and regulation networks

Efficient production demands effective communication between people and machines, and also within the production area. Ha-VIS eCon switches are ideal for networking controllers, remote I/O and human-machine interfaces up to the industrial PCs.

2 Video surveillance of buildings and machines

Visual surveillance of complex production facilities is very important. By connecting cameras via the PoE function in the Ha-VIS eCon switches, you can combine data acquisition and energy supply and consequently save time during the installation. In addition, the elimination of static cabling offers greater flexibility if the production area is reconfigured or expanded.

3 Flexible communication infrastructure

Setting up a supplementary communication infrastructure within the production facilities is swift, cost efficient and flexible with the help of the Ha-VIS eCon switches. From IP telephones to small servers and all the way to WLAN or Bluetooth access points, countless end devices can be used and networked.

4 Vision applications

Visual systems are increasingly stronger integrated into industrial manufacturing processes as monitoring and controlling with camera systems enables flexible processes and higher product quality. Machine vision is an inherent part of Germany's Industry 4.0 high-tech strategy.

Impressing with a persuasive depth and width: Our product portfolio.



Ha-VIS eCon 3000 Basic Family

Ha-VIS eCon 3000 Fast Ethernet and Full Gigabit Ethernet Basic



The switches in the Ha-VIS eCon family fit in everywhere thanks to their compact dimensions. You can select exactly the combination of performance characteristics and ports that suit your application. Discover the more than 200 switch models online at www.harting.com/en/ethernet-switches



Ha-VIS eCon 2000 Basic Family

Ha-VIS eCon 2000 Fast Ethernet and Full Gigabit Ethernet Basic



3000

Ha-VIS eCon 3000 Fast Ethernet Basic



C-temp
(0 to +55 °C)

Standard
PoE+
PoE+ 24 V DC/DC converter

I-temp
(-40 to +70 °C)

Standard
PoE+
PoE+ 24 V DC/DC converter

Ha-VIS eCon 3000 Full Gigabit Ethernet Basic



C-temp
(0 to +55 °C)

Standard
PoE+
PoE+ 24 V DC/DC converter

I-temp
(-40 to +70 °C)

Standard
PoE+
PoE+ 24 V DC/DC converter

Ha-VIS eCon 2000 Fast Ethernet Basic



C-temp
(0 to +55 °C)

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PoE+

I-temp
(-40 to +70 °C)

Standard
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Standard
PoE+

2000



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