



Ha-VIS mCon 3000

PROFINET switches – reliable, adaptable and flexible

Stable, secure and reliable data transfer is one of the most critical factors in automation technology. Demands are increasing in parallel with the flexibility of modern systems and the need to reuse components in a modularized system layout. Ethernet and PROFINET are internationally valid standards and support the construction of a cross-vendor communication platform.

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Manufacturer-specific communication solutions are specially tailored to particular use cases and applications in order to generate specific advantages and effects. In many cases, being able to use these advantages in the field requires significant effort in the selection of components, as well as precise planning – which is not always possible. Proprietary solutions can also result in additional constraints if they are incompatible with existing components or machines. Alternatively, increased costs can be expected for specially adapted components.

” HARTING mCon 3000 switches ensure the high availability of data communication and thus reliable industrial infrastructure.

Consequently, standardized components such as the managed Ethernet switches of the new Ha-VIS mCon 3000 family offer decisive design, performance and cost advantages. They comply with Ethernet standard IEEE 802.3 and also meet all the requirements of PROFINET Conformance Class B (CCB). This guarantees global compatibility with all components that also meet these international standards.

Here, PROFINET combines all the advantages of classic field-bus systems (fast cycle times) and Ethernet (free choice of topology). Guaranteed service quality for data transmission is ensured by methods such as Quality of Service (QoS). This makes it possible to relay critical and control-relevant data packets with high priority and implement applications with very short cycle times. The standard even ensures quick and timely data transfer when faced with high data volumes.

Shorter cycle times and faster processes in industry often require temporal synchronization of all participants within a system. The Precision Time Protocol (PTP Version 2, IEEE 1588) is supported by the new Ha-VIS mCon 3000 switches, and enables synchronization in the microsecond range. As a result, in many cases there is no need for proprietary automation solutions specially designed for real-time functioning. Extensive software features allow users to perfectly configure switches for each application scenario.

The new switches mean that, besides the Rapid Spanning Tree Protocol (RSTP), the Medium Redundancy Protocol (MRP) is also available when configuring redundant network topologies. Network redundancy is the ability to survive link failure without a communication breakdown. HARTING mCon 3000 switches ensure high data communication availability and thus reliable industrial infrastructure. ■

IN BRIEF

- PROFINET CCB Ethernet switches
- Extensive software features