

Management function

**Basic functions**

- Store and Forward Switching Mode (IEEE 802.3)
- Multicast filtering and bandwidth limiting
- IGMP Snooping and Querier
- VLAN
- Rapid Spanning Tree (RSTP)
- QoS (802.1p)
- DHCP Client

**SNMP**

- SNMP V1 and SNMP V3
- Enterprise (HARTING MIB)
- MIB II
  - RMON (statistic, history, alarm, events)
  - Dot1Bridge
  - SnmpDot3mauMIB
  - PtopoMIB
  - EntityMIB
  - RstpMIB
  - System
  - ifMIB
  - Icmp
  - Ip
  - Tcp
  - at
  - Udp
  - Snmp
  - transmission

**Web-based access  
(password protection)**

- Status overview
- Port settings
- Network configuration
- Password settings
- Alarm settings
- Diagnostic
- Parameter Import / Export
- Firmware Import / Export

**Additional services**

- DHCP
- SMTP
- Parameter and firmware import and export via TFTP
- System time via SNTP
- Service Mode via port 1

**Diagnostic**

- LEDs for Power, Link, Status, Data transmission and Fault
- Port diagnostic
- Port Mirroring
- History
- Alarms via E-mail or SNMP Traps
- Signalling contact for low voltage detection or Link break

mCon 3000  
mCon 9000

mCon 6000

mCon 7000



**Ethernet Switch  
HARTING mCon 9000**

8-port Ethernet switch, managed, for installation in a 19" rack

**General Description**

The Fast Ethernet switches of the product family HARTING mCon 9000 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 7 network devices over shielded Twisted Pair cables. An additional end-device can be connected via the DIN male connector. The mCon 9000 Ethernet switch family, with its integrated LEDs on each port, supports fast and easy network diagnosis.

The mCon 9000 Ethernet switches operate as a managed switch in Store and Forward Switching Mode and support Auto-crossing, Auto-negotiation and Auto-polarity.

**Features**

- Ethernet switch acc. to IEEE 802.3
- Store and Forward Switching Mode, non-blocking
- 8 ports, managed
- Auto-crossing, Auto-negotiation, Auto-polarity
- Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s)
- Diagnostic LEDs (Link status, Data, Power)
- Pluggable in 19" racks

mCon 9000

**Advantages**

- Robust metal housing
- Management function integrated
- EMC, temperature range and mechanical stability meet the highest demands
- PROFINET compatible

**Application fields**

- Industrial automation
- Automotive industry
- Wind power
- Power distribution systems
- Railway applications

## Technical characteristics

### Ethernet interface

Number of ports	8x 10/100Base-TX
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 50 173-1)
Terminating method, front side	M12, D-coding
Diagnostics (via LED)	<ul style="list-style-type: none"> <li>• Status Link – Green</li> <li>• Data transfer (Act) – Green flashing</li> <li>• Data transfer rate (Speed) – 100 Mbit/s: Yellow / 10 Mbit/s: OFF</li> </ul>
Topology	Ring, Line, Star

### Power supply

Input voltage	24 V DC (18 to 48 V DC)
Terminating method	DIN frame connector, Type F
Diagnostics (via LED)	Power supply

### Design features

Housing material	Aluminium, anodised
Dimensions (W x H x D)	50.5 mm (10 HP) x 128.4 mm (3 U) x 173.5 mm
Degree of protection acc. to DIN 60 529	IP 30
Mounting	19" rack
Weight	approx. 0.6 kg

### Environmental conditions

Operating temperature	– 20 °C to + 75 °C
Storage temperature	– 40 °C to + 85 °C
Relative humidity	30 % to 95 % (non-condensing)