HARTING

mCon 3000 Family

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Advantages & Characteristics

- Network redundancy through RSTP
- Supports VLAN and IGMP Snooping
- Easy configuration via web interface
- Alarm by Email
- Diverse diagnostics
- Redundant power supply
- Potential-free signalling contact
- Robust metal housing
- High immunity to shock and vibration

Automation IT – with mCon Switches from HARTING

With the new mCon 3000 Series, HARTING has expanded its range of managed Ethernet switches. The series offers a broad spectrum of possibilities: in addition to the standard functions already present in the sCon and eCon Series, the mCon switch offers management functions, with which a convergent network can be set up and administered from a central point.
Support of VLAN allows the mCon switches to be used to segment a network, which results in better control of communication flow and the avoidance of unnecessary network loads. IGMP functionality ensures that large data transfers only go where they are needed and with RSTP redundant networks can be set up, which means that a network will continue to function even after a component has dropped out.

At the same time, the configuration and management of the mCon switches is made simply: either via SNMP tools, network management software or very easily via a web interface.

HARTING mCon switches can be used in many applications, offer professional solutions for the operation of Ethernet networks and are simple to install and use. In addition to Fast Ethernet ports, the mCon 3000 series also offers Gigabit and Fibre Optics ports.

Technical Data

mCon 3000 - SC -


mCon 3061-AD
Order No. 20 76 107 4100


mCon 3082-AD
Order No. 20 76 110 4100


mCon 3063-AD
Order No. 20 76 109 4100

Power Supply

Input voltage	24 V DC
Reliable range	12 V to 30 V
Input current	

mCon 3061-AD	mCon 3082-AD	mCon 3063-AD
ca. 240 mA (at 24 V DC)	ca. 260 mA (at 24 V DC)	ca. 290 mA (at 24 V DC)

Voltage supply	Pluggable, 5-pole Terminal block for redundant power supply
Diagnostics (LED)	Power Fault

Ethernet Interface RJ45

Number of ports

mCon 3061-AD	mCon 3082-AD	mCon 3063-AD
6x 10/100Base-TX, managed	8x 10/100Base-TX, managed	6x 10/100Base-TX, managed

Data rate	10 Mbit/s or 100 Mbit/s (RJ45)
Connector	RJ45 (Twisted Pair)
Diagnostics (LED)	- Connection (Link) - green - Data transfer (Act) - flashing green - Data transfer rate (Speed) - 100 Mbit/s: yellow - 10 Mbit/s: OFF
Topology	Line- / Star-topology, Mixed

Ethernet Interface
Fibre Optic

Number of ports

mCon 3061-AD	mCon 3082-AD	mCon 3063-AD
1x 100Base-FX managed	2x 100Base-FX managed	3x 100Base-FX managed

Cable type according to IEEE 802.3	Multimode-Fibre 50 / 125 µm or 62,5 / 125 µm
Data rate	100 Mbit/s
Maximum cable length	2000 m
Connector	SC-D Connector
Diagnostics (LED)	- Connection (Link) - green - Data transfer (Act) - flashing green
Wavelength	1300 nm

mCon 3000 - without FO -


mCon 3100-A
Order No. 20 76 110 4000


mCon 3100-AA
Order No. 20 76 110 4001

Power Supply

Input voltage	24 V DC
Reliable range	12 V to 30 V
Input current	

mCon 3100-A	mCon 3100-AA
ca. 170 mA (at 24 V DC)	ca. 250 mA (at 24 V DC)

Voltage supply	Pluggable, 5-pole Terminal block for redundant power supply
Diagnostics (LED)	Power Fault

Ethernet Interface RJ45

Number of ports

mCon 3100-A	mCon 3100-AA
10x 10/100Base-TX, managed	8x 10/100BaseTX, 2x 10/100/1000 Base TX, managed

Data rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s (RJ45)
Connector	RJ45 (Twisted Pair)
Diagnostics (LED)	- Connection (Link) - green - Data transfer (Act) - flashing green - Data transfer rate (Speed) - 1000 Mbit/s: green - 100 Mbit/s: yellow - 10 Mbit/s: OFF
Topology	Line- / Star-topology, Mixed

Mechanical Data
(same for all sCon devices)

Housing material	Metal (powder coated)
Dimensions (W x H x D)	60 x 100 x 130 mm (without connector)
Degree of Protection according to DIN 60 529	IP 30

Environmental Conditions

Operating temperature	0 °C to +70 °C
Storage temperature	-40 °C to +85 °C

mCon 3000 - ST -


mCon 3061-AE
Order No. 20 76 107 4200


mCon 3082-AE
Order No. 20 76 110 4200


mCon 3063-AE
Order No. 20 76 109 4200

Power Supply

Input voltage	24 V DC
Reliable range	12 V to 30 V
Input current	

mCon 3061-AE	mCon 3082-AE	mCon 3063-AE
ca. 240 mA (at 24 V DC)	ca. 260 mA (at 24 V DC)	ca. 290 mA (at 24 V DC)

Voltage supply	Pluggable, 5-pole Terminal block for redundant power supply
Diagnostics (LED)	Power Fault

Ethernet Interface RJ45

Number of ports

mCon 3061-AE	mCon 3082-AE	mCon 3063-AE
6x 10/100Base-TX, managed	8x 10/100Base-TX, managed	6x 10/100Base-TX, managed

Data rate	10 Mbit/s or 100 Mbit/s (RJ45)
Connector	RJ45 (Twisted Pair)
Diagnostics (LED)	- Connection (Link) - green - Data transfer (Act) - flashing green - Data transfer rate (Speed) - 100 Mbit/s: yellow - 10 Mbit/s: OFF
Topology	Line- / Star-topology, Mixed

Ethernet Interface
Fibre Optic

Number of ports

mCon 3061-AE	mCon 3082-AE	mCon 3063-AE
1x 100Base-FX managed	2x 100Base-FX managed	3x 100Base-FX managed

Cable type according to IEEE 802.3	Multimode-Fibre 50 / 125 µm or 62,5 / 125 µm
Data rate	100 Mbit/s
Maximum cable length	2000 m
Connector	ST Connector
Diagnostics (LED)	- Connection (Link) - green - Data transfer (Act) - flashing green
Wavelength	1300 nm

Features & Functions of the mCon 3000

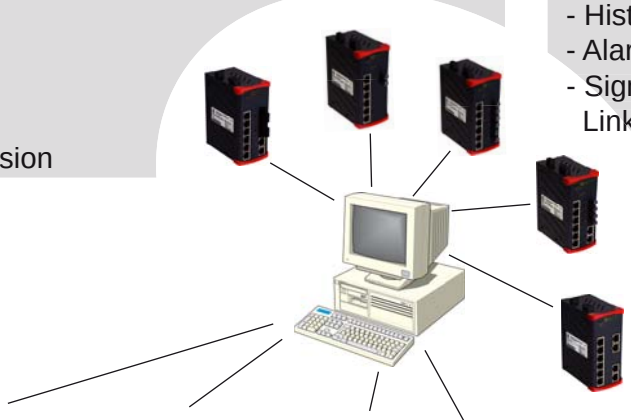
Basic Functions
- Store and Forward Switching Mode (IEEE 802.3)
- Multicast filtering and bandwidth limiting
- IGMP Snooping and Querier
- VLAN
- Rapid Spanning Tree (RSTP)
- QoS (802.1p)
- DHCP Client

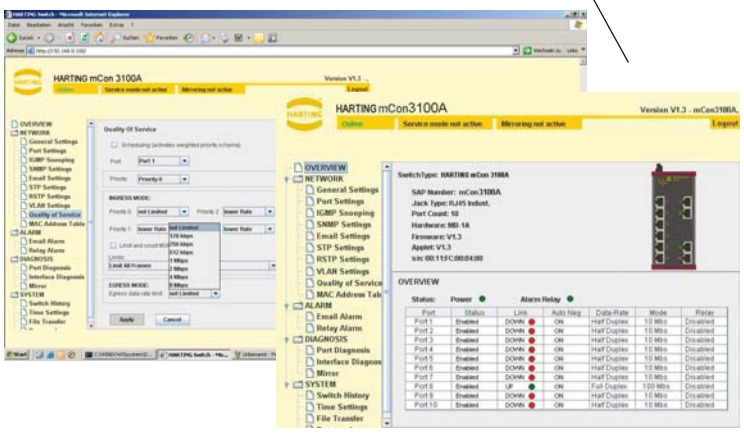
SNMP
- SNMP V1 and SNMP V3
- Enterprise (HARTING MIB)
- MIB II
  - RMON (statistics, history, alarm, events)
  - Dot1Bridge
  - SnmpDot3mauMIB
  - PtopoMIB
  - EntityMIB
  - RstpMIB
  - System
  - ifMIB
  - ICMP
  - IP
  - TCP
  - AT
  - UDP
  - SNMP
  - Transmission

Web-based access (password protection)
- Status overview
- Port settings
- Network configuration
- Password settings
- Alarm settings
- Diagnostics
- 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

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





The mCon 3000 switch can, through its java applet, be conveniently accessed and configured via a normal internet browser. The applet is password protected and comes with a range of access levels. An easy-to-use menu allows the mCon 3000 Family to be customised and adapted to a specific network.

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