


21700136	<b>DATA SHEET</b>	
Valid from: 17.06.2020	<b>ETHERLINE ACCESS M08T02(S*)</b>	

## Beschreibung

- Fast Ethernet Network-Switch (10/100BaseT(X)), managed
- Easy network management by web browser, Telnet / serial console, Ports: 8x RJ45 & 2x SFP
- Industrial network redundancy with network recovery time < 50 ms (DT-Ring) and < 20 ms (DRP/DHP)
- Standard redundance protocols MSTP/ RSTP / STP
- Various management and security policies available (e.g. DHCP, IGMP Snooping, QoS, IEEE 802.1Q VLAN , port-based VLAN and GMRP)
- Ethernet/IP, Modbus/TCP supported



## General characteristics

Interfaces & buttons

**8x RJ45 Port:** 10/100BaseT(X) auto-negotiation, full-/halfduplex-mode and Auto-MDI/MDI-X-connection

**2x SFP Port:**

100BaseX (M08T02SFP)

1000BaseX (M08T02GSFP)

**Console Port:** RJ45, RS232

**Alarm contact:** 3-Pin plug-in terminal block (spacing 5.08mm)

**Reset-Button:** reboot and restore default configuration

Switch properties

MAC-tablesize: 8 K

packet-buffersize: 4 Mbit

number of VLAN's: 4K

priority Queues: 8

packet forwarding rate: 1.5 Mpps (M08T02SFP) / 4.2 Mpps (M08T02GSFP)

Jumbo Frame-Size: 9.6 KB (max.)

operating temp.: -40°C to +75°C (-40°F to 167°F)

storage temp.: -40°C to +85°C (-40°F to 185°F)

Temperature range

Relative humidity

5% to 95 % (non-condensing)

Standards

IEEE 802.3i (10BaseT)

IEEE 802.3u (100BaseTX and 100BaseFX)

IEEE 802.3z (1000Base-SX/LX)

IEEE 802.3ad (Link aggregation)

IEEE 802.3x (Flow Control)

IEEE 802.1p (Class of Service)

IEEE 802.1Q (VLAN)

IEEE 802.1d (STP)

IEEE 802.1w (RSTP)


IEEE 802.1s (MSTP)

IEEE 802.1x (Network Access Control)

IEEE 802.1ab (LLDP)

IEEE 1588 V2 (PTP)

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**Protocol**

**Switching:**

VLAN, PVLAN, GVRP, Port Aggregation, LACP, Port FlowControl, ACL Rate Limiter, QoS Storm Policing

**Redundancy:**

DT-Ring, DT-Ring+, DT-VLAN, DRP/DHP, STP / RSTP / MSTP

**Multicast:**

IGMP Snooping, GMRP, Static multicast

**Network safety:**

HTTPS/SSL, SSH, TACACS+, RADIUS, User Classification, MAC-adress binding with switch ports

**Service Quality:**

QoS, DSCP, SP, WRR Queue scheduling, ACL

**Industry:**

Ethernet/IP, Modbus/TCP

**Management**

**Management and maintenance:**

Console, Telnet, Web-Interface, SNMPv1/v2c/v3, loop detection, RMON, port mirroring, Syslog, LLDP, Link-check, automatic configuration backup and restore tool

**Alarm:**

Power, IP/MAC-conflict, memory/CPU-usage, port, ring, port traffic, CRC error, packet lose, RX/TX performance alarm from SFP-Ports, DDMI for SFP-Ports

**IP-Management:**

DHCP server/snooping/client, DHCP Option 82, ARP

**Time Management:**

SNTP Client, PTP

**MTBF (mean time between failures)**

1.662.791 Std @ Telcordia (Bellcore), GB (M08T02SFP)

1.667.326 Std @ Telcordia (Bellcore), GB (M08T02GSFP)

**Variation**

Article	Description	SFP-Type (S*) [max. transmission rate]
21700136	ETHERLINE ACCESS M08T02SFP	100 Mbit
21700137	ETHERLINE ACCESS M08T02GSFP	1 GBit


**Power requirements**

Connection	1 removable 5-pole terminal block
Input voltage	24-48 V DC (18-60V DC)
Power Consumption (max.)	12 W
Input current (max.)	0.67 A
Overload current protection	support
Reverse polarity protection	support
Redundancy protection	support

**Physical properties**

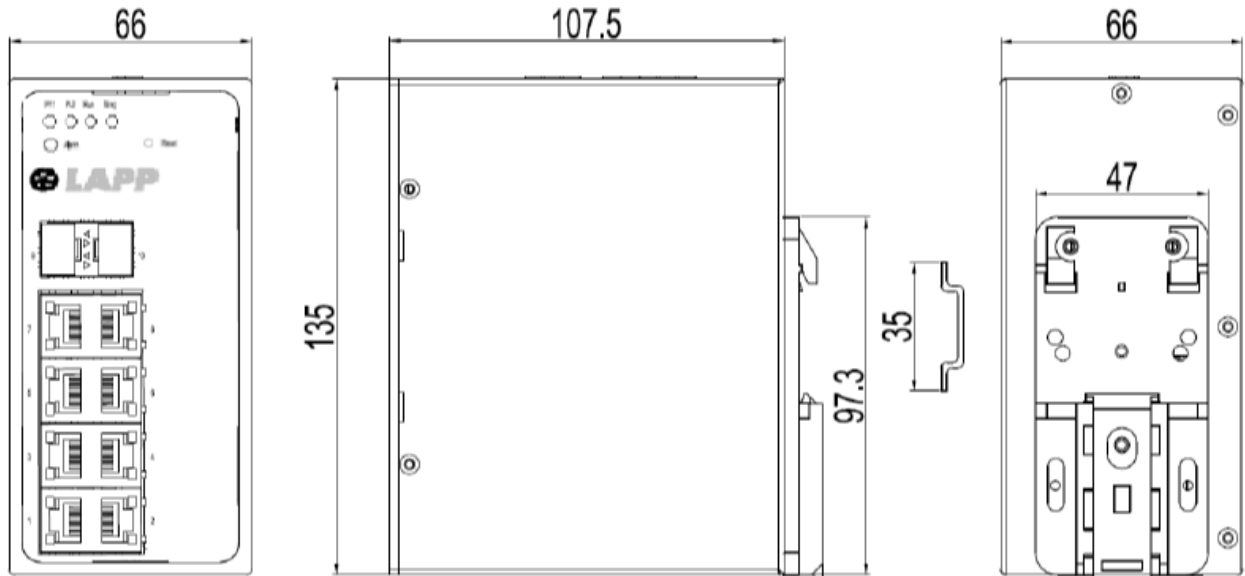
Housing	metal
IP class	IP40
Weight	1.1 kg
Installation	DIN-rail mounting

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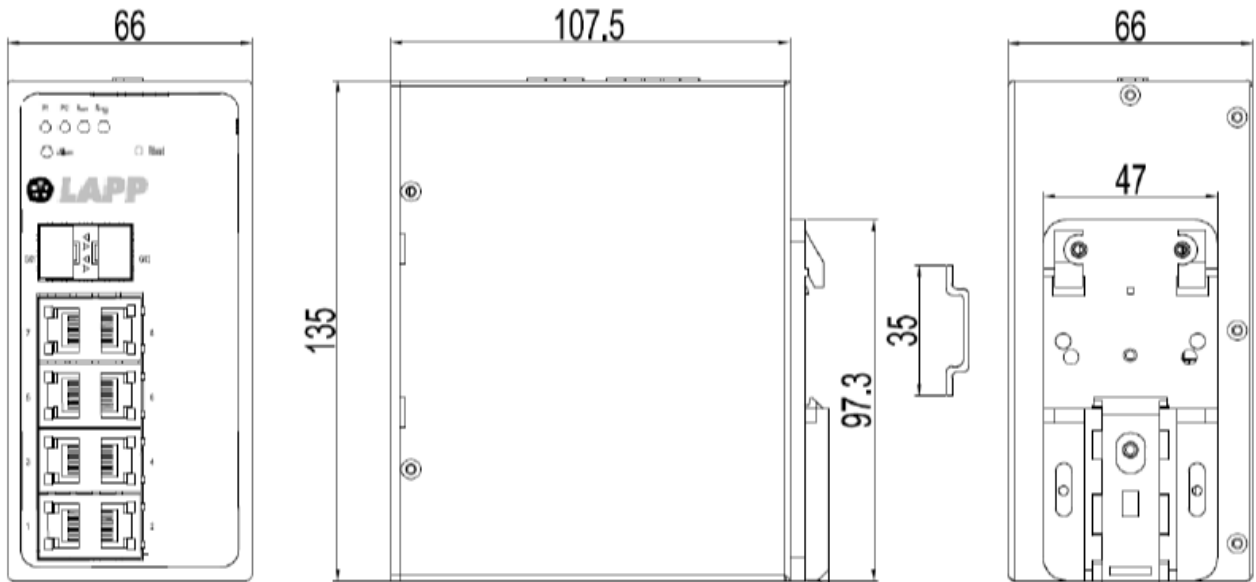
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**Technical drawing**

Dimensional drawing (M08T02SFP)



Dimensional drawing (M08T02GSFP)



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### Standards and approvals

Safety	UL61010
EMC	EN55032/CISPR22 Class A
EMI	FCC CFR47 Part 15
EMS	IEC 61000-4-2 ESD: contact: 6kV / air: 8kV IEC 61000-4-3 RS: 80Mhz to 2GHz: 10V/m IEC 61000-4-4 EFT/Burst: Power: 2kV / Signal: 1kV IEC 61000-4-5 Surge: Power: 1kV / Signal: 1kV IEC 61000-4-6 CS: 10V (150 kHz – 80 MHz)
Vibration	according IEC 60068-2-6
Shock	according IEC 60068-2-27
Free fall	according IEC 60068-2-31
Approvals	CE UL(E331560) FCC

### Application range

Automation, industrial machinery and plant engineering

### Note

Photographs are not to scale and do not represent detailed images of the respective products.

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