

21700136	DATA SHEET	
Valid from: 17.06.2020	ETHERLINE ACCESS M08T02(S*)	

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-buffer-size: 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.)

Temperature range

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

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

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-address 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

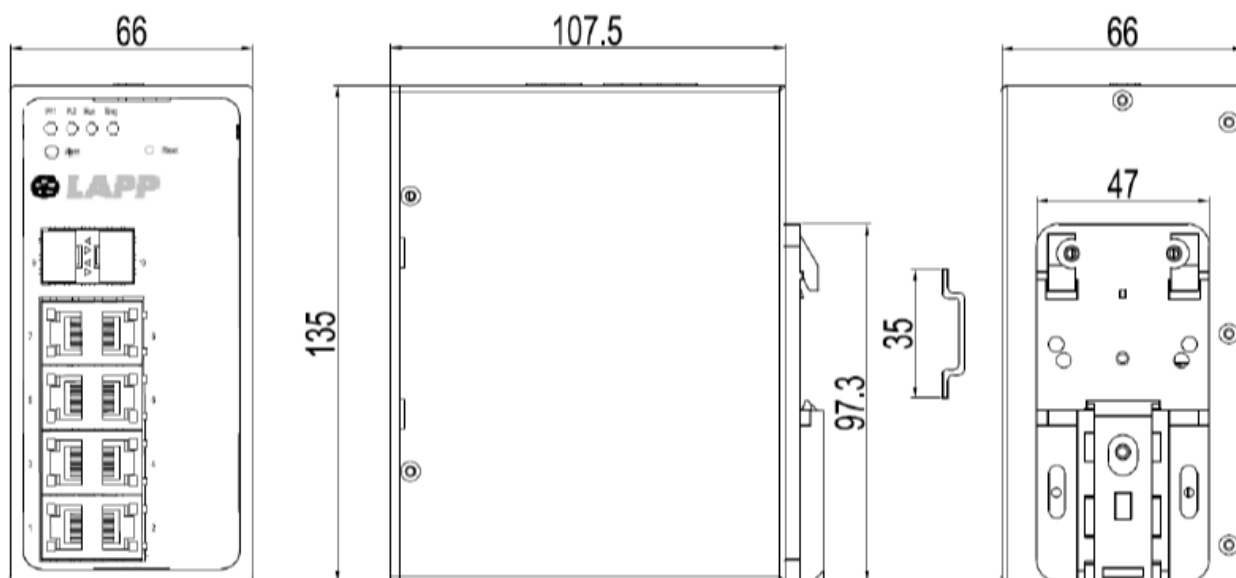
Housing	metal
IP class	IP40
Weight	1.1 kg
Installation	DIN-rail mounting

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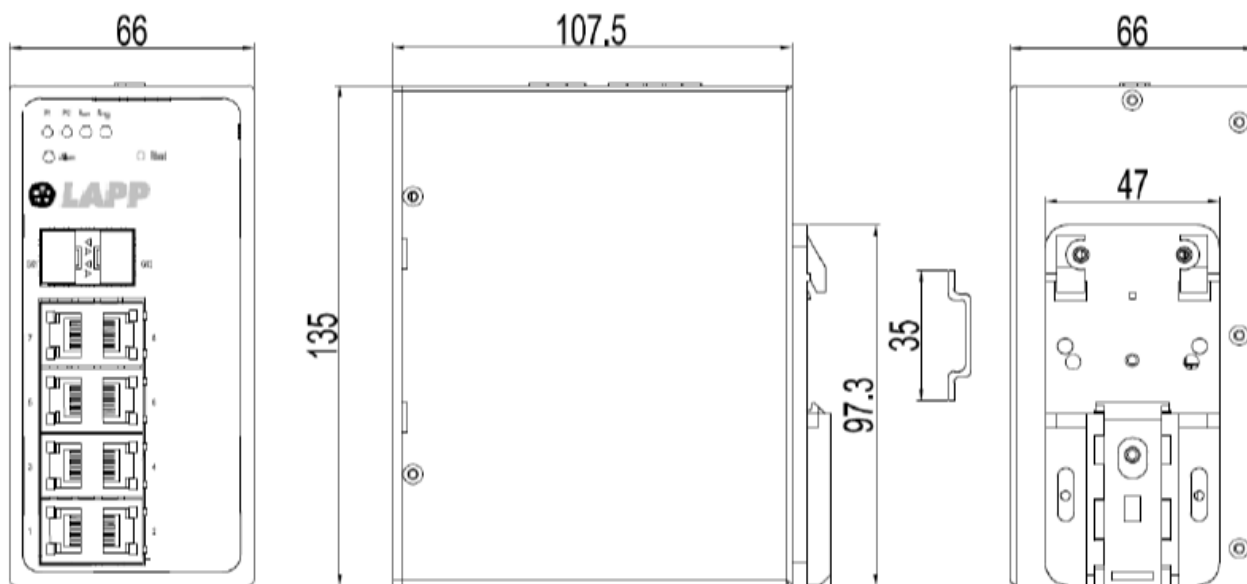
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Technical drawing

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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