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| 21700125 | DATA SHEET |  |
| Valid from: 06.04.2020 | ETHERLINE® ACCESS M(P*)T-2GEN | |

Description

- Fast Ethernet Network-Switch (10/100BaseT(X)), managed
- Easy network management by web browser, Telnet / serial console, Ports: RJ45
- Industrial network redundancy with network recovery time < 20 ms (DT-Ring) and < 50 ms (DRP/DHP)
- Standard redundance protocols MSTP / RSTP / STP
- Diverse 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

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

Console port: RJ45, RS232

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

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 0.90 Mpps (M06T-2GEN) / 1.2 Mpps (M08T-2GEN)

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)

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, DR/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

IP-Management:

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

Time Management:

SNTP Client, PTP

MTBF (mean time between failures)

1.724.001 Std @ Telcordia (Bellcore), GB (M06T-2GEN)

1.717.168 Std @ Telcordia (Bellcore), GB (M08T-2GEN)

Variation

| Article | Description | Ports (P*) [amount] |
|----------|----------------------------|---------------------|
| 21700125 | ETHERLINE ACCESS M06T-2GEN | 06 |
| 21700126 | ETHERLINE ACCESS M08T-2GEN | 08 |


Power requirements

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|-----------------------------|-----------------------------------|
| Connection | 1 removable 5-pole terminal block |
| Input voltage | 24-48 V DC (18-60V DC) |
| Power Consumption (max.) | 11 W |
| Input current (max.) | 0.62 A |
| Overload current protection | support |
| Reverse polarity protection | support |
| Redundancy protection | support |

Physical properties

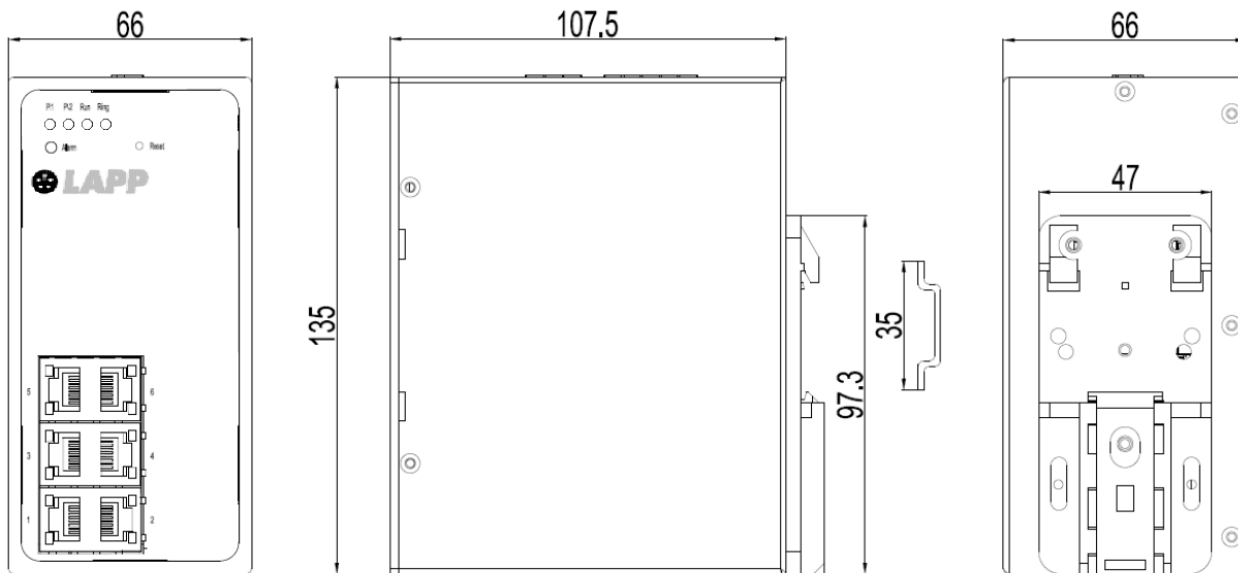
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|--------------|-------------------|
| Housing | metal |
| IP class | IP40 |
| Weight | 1.1 kg |
| Installation | DIN-rail mounting |

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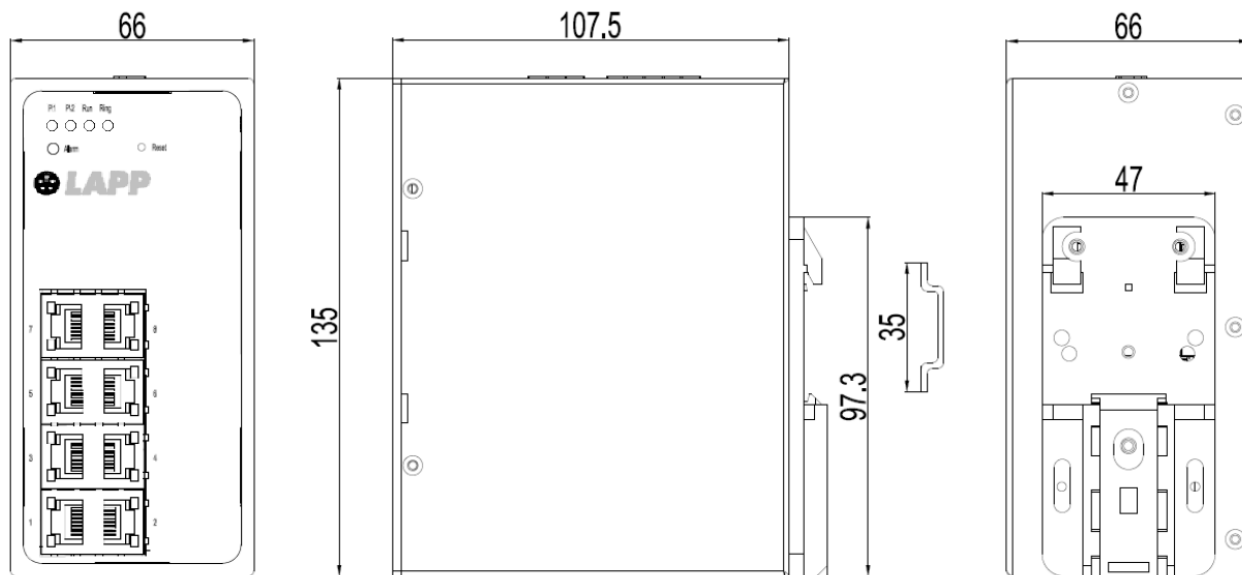
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Technical drawing

Dimensional drawing (M06T-2GEN)



Dimensional drawing (M08T-2GEN)



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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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