

Diagnostic Switch PROmesh B28-RL



Art.-No.: 114110138

HIGHLIGHTS

- Layer 3 routing
- Transmission rates up to 10 Gbit/s
- Link aggregation
- 802.1X authentication (radius)
- Extended temperature range from -40°C to +75°C

Your advantages

- Networking of several IP address ranges with one central device
- Deployment at the centre of your network thanks to highspeed of up to 10Gbit/s and further scalability thanks to Link Aggregation.
- The PROmesh B28-RL is a fully-managed Industrial Ethernet switch for use in industrial automation systems.
- You can configure it easily and conveniently via its integrated web interface.
- Due to the extended temperature range temperature range, the PROmesh B28-RL can also be used in can also be used in locations subject to high thermal loads.
- Extensive diagnostic functions:
Find out about your network status at any time.

Diagnose-Switch PROmesh B28-RL

Technical details

| Network interfaces | |
|--|---|
| Combo Ports (RJ45 / SFP) | |
| ■ Interfaces | 8 (designation 1 – 8) |
| ■ Transmission rates | 10 Mbps 100 Mbps 1 Gbps |
| ■ Status LED | Link + data exchange |
| RJ45 Ports | |
| ■ Interfaces | 16 (designation 9 – 24) |
| ■ Transmission rates | 10 Mbps 100 Mbps 1 Gbps |
| ■ Status LED | Link + data exchange |
| SFP Ports | |
| ■ Interfaces | 4 (designation 25 – 28) |
| ■ Transmission rates | 1 Gbps 10 Gbps |
| ■ Status | Link + data exchange |
| Supply voltage, Power supply, Power loss | |
| Interfaces | |
| ■ Power supply | IEC connector C14 (designation PWR1) |
| ■ Redundant power supply | IEC connector C14 (designation PWR2) |
| ■ Functional earth | M3 screw connection |
| ■ Alarm contact (relay) | 2 × 2 pin 0,2 - 2,5 mm ² |
| ■ Console | RJ45 |
| Operating parameters | |
| ■ Supply voltage (nominal value) | 100 - 240VAC/DC |
| ■ Fuse protection (power supply input) | 5 A |
| Further device interfaces | |
| ■ Status LED | PSU1 PSU2 Alarm Status |
| Functions | |
| Basic parameters | |
| ■ Switching technology | Store and Forward |
| ■ MAC address table | 16 K |
| ■ Packet buffer | 12 Mbit |
| ■ Backplane Kapazität | 128 Gbps |
| ■ Throughput | 95,2 Mpps |
| Quality of Service (QoS) | |
| ■ Queues per port | 8 |
| ■ Prioritisation functions | Port-based Class of Service (CoS) Type of Service (ToS) |
| ■ Prioritisation methods | Strict prioritisation Weighted prioritisation |
| ■ Bandwidth Control | Inbound and Outbound |

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Technical details

| Functions | |
|------------------------|---|
| VLAN | |
| ■ Protocol function | Port-based |
| ■ Amount | 4096 |
| Protocols/Services | |
| ■ Web | HTTP HTTPS |
| ■ Network | SNMPv1 SNMPv2 SNMPv3 DHCP Client DHCP Server RMON |
| ■ Time synchronization | SNTP Client |
| ■ Neighbourhood | LLDP |
| ■ Redundancy | Ring STP RSTP MSTP ERSP MRP Master MRP Client Port Trunking LACP |
| ■ Eventlog | Syslog |
| ■ File transfer | TFTP |
| ■ Multicast groups | IGMP-Snooping GMRP Static Multicast Multicast Passthrough PIM-SM PIM-DM |
| ■ Routing | NAT VRRP RIP OSPF BGP |
| ■ Security | ACL 802.1X authentication Loop detection |
| ■ PROFINET | Conformance class A |
| Diagnosis | |
| Functions | |
| ■ Port statistics | Errors Discards |
| ■ Port mirroring | in parallel up to 4 mirrorings Incoming, outgoing or incoming and outgoing packets Multiple source ports possible |
| ■ System parameters | CPU utilisation Memory utilisation |
| ■ Routing | ARP table |

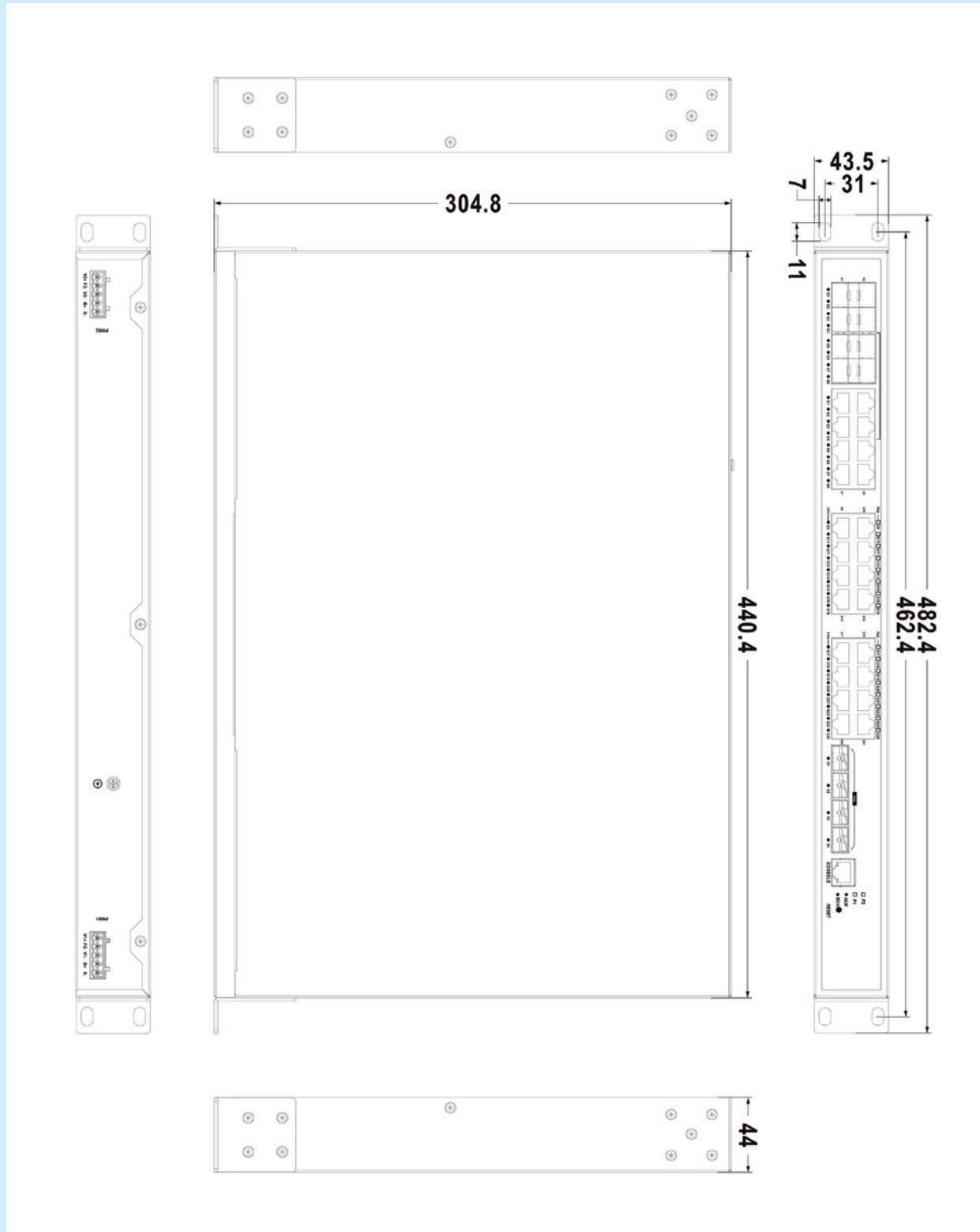
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Technical details

| Diagnosis | |
|----------------------------------|--------------------------------------|
| Alert | |
| ■ Trigger | Port status change Supply voltage |
| ■ Receiver | SNMP Trap Alarm contact |
| Environmental conditions | |
| ■ Operating temperature | -40 – 75 °C |
| ■ Storage temperature | -40 – 85°C |
| ■ Air humidity, rel. | 5 – 95 % non-condensing |
| ■ Protection class | IP30 |
| ■ MTBF | 49 years |
| Design, dimensions, weights | |
| ■ Building type | 19" Rack 1U |
| ■ Material (housing) | Metal |
| ■ Mounting | 19" rack mounting |
| ■ Width | 440,40 mm |
| ■ Height | 44 mm |
| ■ Depth | 304,8 mm |
| ■ Weight (net) | 3,94 kg |
| Standards, directives, approvals | |
| EMC | |
| ■ Guideline | 2014/30/EU |
| ■ Susceptibility | IEC 61000-4-4 IEC 61000-4-5 |
| ■ ESD | IEC 61000-4-2 |
| Mechanical stability | |
| ■ Vibration | IEC 60068-2-6 |
| ■ Shock | IEC 60068-2-27 |
| ■ Free fall | IEC 60068-2-32 |
| Approval | |
| ■ Europe | CE |
| Environment | |
| ■ RoHS | 2011/65/EU |
| ■ REACH | 1907/2006/EG |
| FCC | |
| ■ Overvoltage protection | IEC 6100045, Level 3 |
| ■ EFT | IEC 6100044 |

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Technical details



Technical drawing | Dimensions (mm)

Diagnose-Switch PROmesh B28-RL equipment

| SFP modules | |
|--|-----------|
| Designation | Art.-No. |
| ■ SFP transceiver module 100Mbit/s 2 km MM | 114120034 |
| ■ SFP transceiver module 1 GBit/s 0,55 km MM | 114120005 |
| ■ SFP transceiver module 1 GBit/s 20 km SM | 114120004 |
| ■ SFP transceiver module 1 Gbit/s 100m RJ45 | 114120003 |
| ■ SFP transceiver module 10Gbit/s 300m MM | 114120009 |
| ■ SFP transceiver module 10Gbit/s 10km SM | 114120008 |