

## Product Datasheet - Technical Specifications



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## 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 <sup>2</sup>
■ 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

## Diagnose-Switch PROmesh B28-RL

### 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

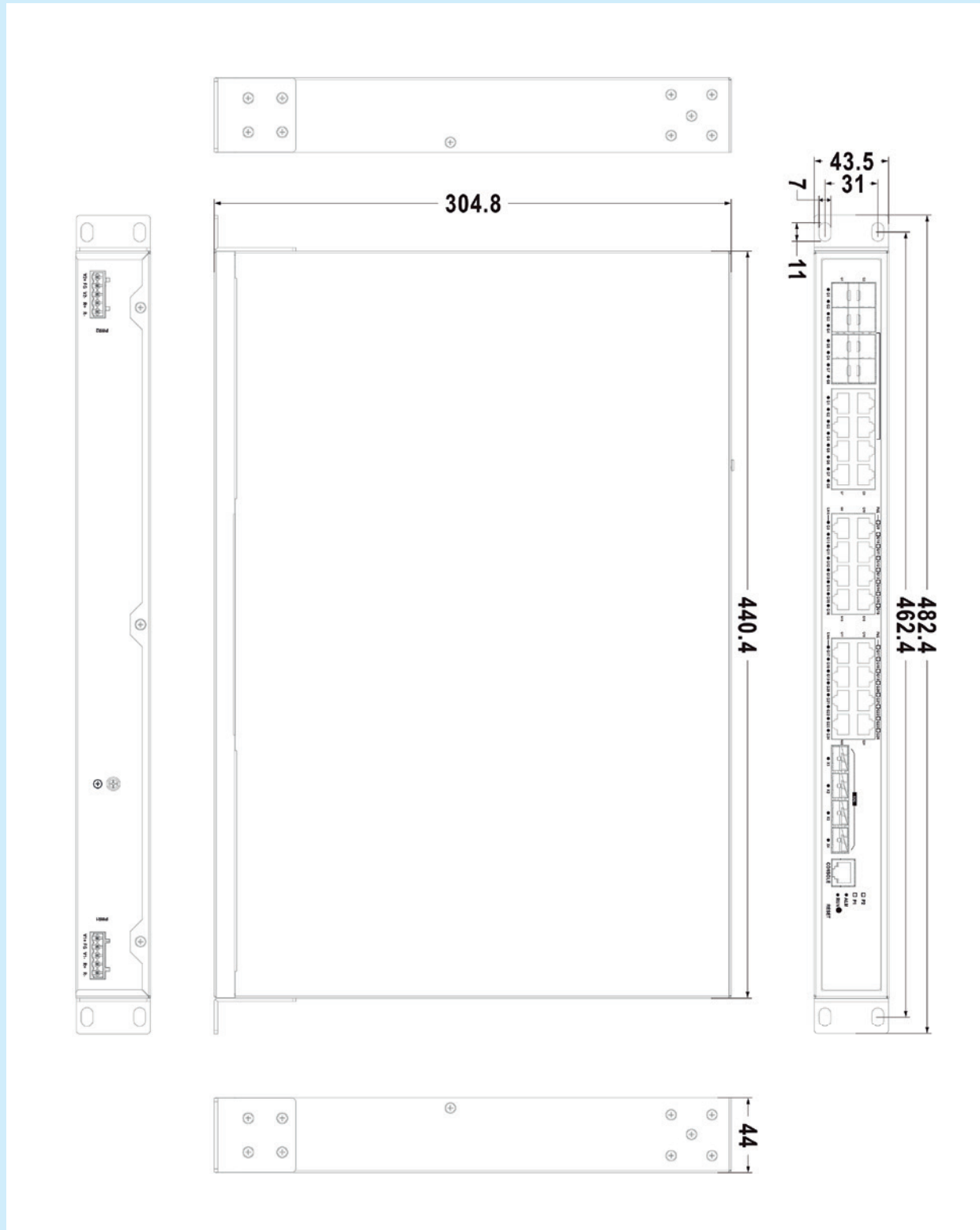
## Diagnose-Switch PROmesh B28-RL

### 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

# Diagnostic-Switch PROmesh B28-RL

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