

Diagnostic Switch PROmesh B12 PoE



Art.-No.: 114110251

HIGHLIGHTS

- Link aggregation
- 802.1X authentication (radius)
- Extended temperature range from -40°C to $+75^{\circ}\text{C}$

Your advantages

- Deployment at the centre of your network thanks to highspeed of up to 2.5 Gbit/s and further scalability thanks to Link Aggregation.
- The PROmesh B12 PoE 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 B12 PoE in can also be used in locations subject to high thermal loads.
- Extensive diagnostic functions:
Find out about your network status at any time.

Diagnostic Switch PROmesh B12 PoE

Technical details

Network interfaces	
RJ45 Ports	
■ Interfaces	8 (designation 1 – 8)
■ Transmission rates	10 Mbit/s 100 Mbit/s 1000 Mbit/s
■ Status LED	Link + data exchange
SFP Ports	
■ Interfaces	4 (designation 9 – 12)
■ Transmission rates	100/1000 Mbit/s (designation 9 – 10) 100/1000/2500 Mbit/s (designation 11 – 12)
■ Status	Link + data exchange
Supply voltage, Power supply, Power loss	
Operating parameters	
■ Supply voltage (nominal value)	24 V DC Voltage input range: 12 V DC ... 48 VDC
■ Current consumption (max.)	0.21 A (active PoE: 11 A)
■ Power consumption (max.)	5.0 W (active PoE: 132 W)
■ Fuse protection (power supply input)	12 A
Further device interfaces	
■ Status LED	PSU1 PSU2 Alarm Status
Functions	
Basic parameters	
■ Switching technology	Store and Forward
■ MAC address table	8K
■ Packet buffer	4 Mbit
■ Backplane Kapazität	30 Gbps
■ Throughput	22.32 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

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Functions	
VLAN	
■ Protocol function	Port-based
■ Amount	4096
PoE	
■ PoE type	active PoE
■ PoE-Port	max. 8 (designation 1 – 8)
■ max. Power over PoE	120W
■ power per Port:	15W / 30W
Protocols/Services	
■ Web	HTTPS
■ Network	SNMPv1 SNMPv2 SNMPv3 DHCP Client DHCP Server RMON
■ Time synchronization	NTP Client
■ Neighbourhood	LLDP
■ Redundancy	Ring STP RSTP MSTP ERSP Port Trunking LACP
■ Eventlog	Log
■ Multicast groups	IGMP-Snooping
■ Security	ACL 802.1X authentication Loop detection NAS
■ 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
■ System parameters	CPU utilisation Memory utilisation

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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	IP40
■ MTBF	49 years
Design, dimensions, weights	
■ Material (housing)	Metal
■ Mounting	35 mm DIN Rail
■ Width	53 mm
■ Height	138 mm
■ Depth	110 mm
■ Weight (net)	0,78 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 B12 PoE 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 2,5 GBit/s 0,55 km MM	114120020
■ SFP transceiver module 2,5 GBit/s 10 km SM	114120021