

Diagnostic Switch PROmesh B12 PoE



Art.-No.: 114110251

HIGHLIGHTS

- PoE up to 120 W
- Link aggregation
- 802.1X authentication (radius)
- Extended temperature range from -40°C to +75°C

Your advantages

- Provides a power supply for up to 8 devices via PoE
- 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
■ DIP-Switches	yes
Functions	
Basic parameters	
■ Switching technology	Store and Forward
■ MAC address table	8 K
■ 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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Diagnosis	
Alert	
■ Trigger	Port status change Supply voltage
■ Receiver	SNMP Trap Alarm contact
DIP-Switches	
■ DIP switch 1: RDFS	If the DIP switch Restore Factory Setting (RDFS) is on, the switch is automatically rooted and reset to the factory settings, Afterwards, the DIP switch should be turned off again.
■ DIP switches 2 – 4:	Reserved
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