

PROmesh P10+



Art.-Nr.: 114110203-SL

HIGHLIGHTS

- Online line monitoring
- Network monitoring:
 - Network load
 - TCP / IP retransmissions
 - Discards
 - Errors
- Environmental monitoring:
 - Leakage current
 - Vibration
 - Humidity
 - Light
- High performance:
 - Transmission rates up to 2.5 Gbit/s
 - Quality of service
 - 8 priority queues

Your advantages

- Continuous diagnostics of the connected lines during operation.
- The PROmesh P10+ is a fully managed Industrial Ethernet/PROFINET/Ethernet IP switch for industrial automation systems.
- You can configure it easily and conveniently via its integrated web interface.
- Increased network security through integrated firewall function
- Connect your machines and production network using NAT
- Extensive diagnostic functions: Find out about your network status, the interference reserve of cables as well as EMC and environmental influences (e. g. vibration, humidity, ...) at any time.



network interfaces	
RJ45 ports	
■ interfaces	8
transfer rate	10 Mbps 100 Mbps 1 Gbps
status LED	link + data communication
SFP ports	
interfaces	2
transfer rate	100 Mbps 1 Gbps 2.5 Gbps
status LED	link + data communication
power supply, current consumption, power loss, alarm contact	
connections	
power supply	2 x 0,2-2,5 mm ²
redundant power supply	2 x 0,2 - 2,5 mm ²
PE-connection	1 x 0,2 - 2,5 mm ²
alarm contact	2 x 0,2 - 2,5 mm ²
operating parameters	
power supply (nominal value)	24 VDC, redundant
power supply (min.)	12 VDC
power supply (max.)	48 VDC
environmental parameters	
operating temperatur	-40°C 75°C
storage temperature	-40°C 75°C
humidity (relative)	<95% RHD, non-condensing
design, dimensions, weights	
design	compact passive cooling
material (housing)	anodized aluminum
■ fastening	35 mm DIN rail (0°, 90°)
broad	60 mm
height	110 mm
depth	132 mm
installation distance (vertical)	50 mm
installation distance (horizontal)	20 mm
other device interfaces	
■ status LED	VDC1 VDC2 Status Error
data storage	SD card
■ reset	button
function	
basic parameter	
■ switch mode	store & forward



function		
basic parameter		
MAC address table	16 K	
package storage	2 Mbit	
backplane capacity	26 Gbps	
throughput	19,3 Mpps	
Quality of Service (QoS)		
Queues per port	8	
prioritization methods	strict prioritization weighted prioritization	
bandwidth limitation	incoming and outgoing	
COS: class of service	yes	
port prioritization	yes	
TOS: type of services	yes	
VLAN		
portbased	yes	
tagged	yes	
number	4096	
protocols/services		
management access	HTTP HTTPS webmanagement CLI PROmanage NT®	
network	SNMPv1 SNMPv2c SNMPv3	
file transfer	TFTP	
■ e-Mail	SMTP	
time synchronization	SNTP client NTP server	
neighborhood	LLDP	
■ IP setting	static PROFINET ETHERNET/IP	
multicast/broadcast	Static Multicast IGMP Snooping Broadcast Limitation	
■ redundancy	MRP master MRP client STP RSTP MSTP static link aggregation dynamic link aggregation	
eventlog	syslog	
routing	NAT	



application specific	
PROFINET	
■ standard	V 2.4
conformance class	В
■ net load class	III
■ real-time-class	1
ETHERNET/IP	'
■ ETHERNET/IP:	yes
diagnosis	
online line diagnostics	yes
port statistics	errors discards network load/ms + network load/s neighborhood TCP/IP retransmission
leakage current monitoring:	sampling rate 18 kHz bandwidth 25.6 kHz measuring range -25 – 25 A resolution 6.25 mA
supply voltage	sampling rate 1 Hz measuring range 12 – 48 VDC resolution 0.3 V
temperature	measuring range -40 – 120°C resolution 1°C
port mirroring	incoming or incoming and outgoing packets multiple source ports possible
environmental sensors	vibration light humidit
alerting	
■ triggers	port (down, status change) cable quality network load leakage current neighborhood supply voltage temperature MRP error discard TCP/ IP retransmission vibration humidity light



standards, guidelines, approvals		
EMC		
policy	2014/30/EU	
interference emission	EN 55032	
noise immunity	EN 61000-6-2	
mechanical stability		
vibration	IEC 60068-2-6	
shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
permit		
Europe	CE	
USA	UL	
Canada	CSA	
environment		
RoHS	2011/65/EU	
REACH	1907/2006/EG	