

PROmesh Industrial Switches

Performance meets diagnostics

Products



Design



Diagnostics



Monitoring



Consulting

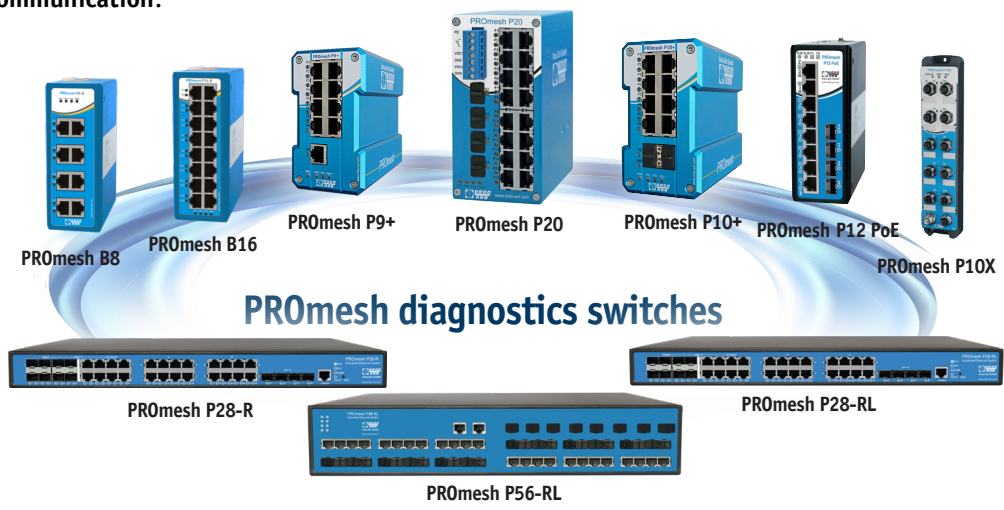


Training











PERFORMANCE MEETS DIAGNOSTICS









The choice of infrastructure components significantly influences the **stability of your network!** Whether heavily loaded / aging data lines, higher EMC loads, growing data volumes or increased security requirements – at Indu-Sol you will find the right components for **stable and secure data communication!**



FEATURES

 Online Cable Diagnostics Trace ageing of cables and plan their replacement	 Backplane Capacity (BC) How much data can be transmitted simultaneously (Gbps)
 EMC-Monitoring Monitor earth currents and send an alarm if limit value exceeded	 Port Number and T type Define available ports and required optical fibre and SFP ports
 Netload Class Compatibility of the network devices with the data volume	 VLAN Physically connected networks logically separated by VLAN
 Data Throughput (TP) Processing speed of a switch (Mpps)	 Performance Monitoring Display of important diagnostic and performance parameters per port

HIGH PERFORMANCE SWITCHES FOR PROFINET AND ETHERNET/IP

General data	PR0mesh B8	PR0mesh P12 PoE	PR0mesh B16	PR0mesh P8+F	PR0mesh P9+	PR0mesh P10+	PR0mesh P10X	PR0mesh P20
								
Art. no.	114110503	11411250	114110512	114110197	114110193	114110203	114110210	114110150
Product information								
Port type	8 x RJ45	8 x RJ45 4 x SFP	16 x RJ45	8 x RJ45	9 x RJ45	8 x RJ45 2 x SFP	8 x M12 d-coded 2 x M12 x-coded	16 x RJ45 4 x SFP
Number of ports	8	12	16	8	9	10	10	20
Port speed	8 x 100 mbps	10 x 1 gbps 2 x 2.5 gbps	16 x 100 mbps	8 x 1 gbps	9 x 1 gbps	8 x 1 gbps x 2.5 gbps	8 x 100 mbps 2 x 1 gbps	16 x 100 mbps 4 x 1 gbps
Protection rating	IP 30	IP 40	IP 20	IP 20	IP 30	IP 20	IP 67	IP 30
Operating temperature	-10°C to 60°C	-40°C to 75°C	-10°C to 60°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Storage temperature	-10°C to 60°C	-40°C to 85°C	-10°C to 60°C	-40°C to 75°C	-40°C to 85°C	-40°C to 75°C	-40°C to 85°C	-40°C to 85°C
Power supply	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Dimensions (H x W x D) in mm	138 x 53 x 110	138 x 53 x 110	138 x 53 x 110	150 x 130 x 60	110 x 60 x 131	105 x 49 x 112	284 x 60 x 28	138 x 130 x 68
Weight	700 g	692 g	800 g	900 g	900 g	490 g	800 g	960 g
Assembly type	Top-hat rail	Top-hat rail	Top-hat rail	Top-hat rail	Top-hat rail	Top-hat rail	Wall assembly	Top-hat rail
Monitoring								
Cable diagnostics	x	x	x	✓	✓	✓	✓	x
EMC monitoring	x	x	x	✓	✓	✓	✓	✓
Performance monitoring	x	x	x	✓	✓	✓	✓	✓
24V Monitoring	x	x	x	✓	✓	✓	✓	✓
PROFINET and EtherNet/IP Protocols								
PROFINET Conformance Class	B	A	B	B	B	B	B	B
Netload Class	II	x	II	III	III	III	III	III
QoS	✓	✓	✓	✓	✓	✓	✓	✓
Backplane [Gbps]	1,6	30	3.2	16	18	26	20	12.8
Throughput [Mpps]	1.19	35.7	2.38	13.4	13,4	19.3	14.9	8.5
Shared buffer [mbps]	1	2	2	2	2	2	2	4

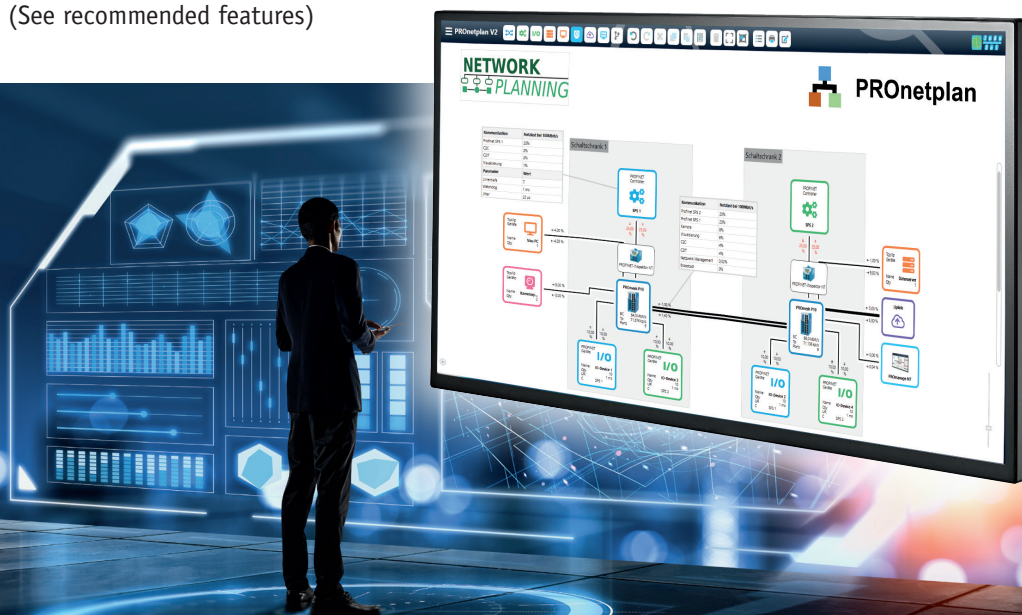


NETWORKS REQUIRE PLANNING

The network areas of IT and OT are increasingly merging because of digitalisation. As a result, formerly standalone application networks like PROFINET are becoming heterogeneous or **convergent networks**.

This development necessitates a **rethink of component selection**, but also a **new type of network planning**. The objective of this planning is to define the necessary functional and performance requirements of the (overall) network, and to realise this with **suitable switches**, while at the same time maintaining economic efficiency. This planning is reflected, among other things, in the functional selection of the switches to be used.

(See recommended features)



READY FOR THE NETWORKS OF THE FUTURE WITH INDU-SOL

- **Consulting** from planning to operation of your system network
- Manufacturer neutral **planning of OT networks**
- Network planning software **PROnetplan V2**
- **Training** on network planning, PROFINET, EMC & Co.

Ordering specifications for PROnetplan V2

Art. no. 114010012



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