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PROmesh B8 8-Port PROFINET And Ethernet IP Managed Switch User Guide

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Contents

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Product Information

DEUTSCH	ENGLISH
Spannungsversorgung	Voltage Supply
Max. Stromaufnahme	Max. Current Consumption
Max. Leistungsaufnahme	Max. Power Consumption
Abmessungen (H x B x T)	Size (H x W x D)
Gewicht	Weight
Montageart	Mounting
Schutzart	Protection Class
Lagertemperatur	Storage temperature
Betriebstemperatur	Operating temperature
Luftfeuchtigkeit, relativ	Relative Humidity
Port Mirroring	Port Mirroring
PROFINET Standard	PROFINET standard
PROFINET Conformance Class	PROFINET Conformance
PROFINET Netload Class	PROFINET Netload Class
Datenports	Data Ports
Switching Mode	Switching Mode
Diagnose & Management	Diagnosis & Management

Product Usage Instructions

1. Check the PROmesh B8 compact for any external damage before putting it into operation.
2. Make sure to observe the technical specifications of the device for safe and optimal use.
3. The PROmesh B8 compact is designed for IP20 protection environments. Take appropriate measures to ensure proper operation of the unit in a different environment.
4. If you suspect any damage to the PROmesh B8 compact, please return it immediately to your supplier and do not put it into operation.
5. To configure the network connection, download the ServiceTool software to your client PC (Windows) from the following link:
   https://sdx.indu-sol.com/s/HiftDTLpYLbCEoS
6. After assigning a suitable IP address and subnet mask, the web UI of the PROmesh B8 compact will be accessible.
7. The PROmesh B8 compact comes with the following factory settings:
   - IP Address: 0.0.0.0
   - Subnet Mask: 0.0.0.0
   - Gateway: 0.0.0.0
   - Username: admin
   - Password: admin

8. To interpret the LED indicators:
   - VDC1 Status LED: Off – Sufficient voltage at the connection; On – Insufficient voltage at the connection
   - Error Status LED: On – Active PROFINET connection to the controller; Off – No PROFINET connection to the controller
   - Port status LED: Blinking – Port is in network communication exchange; Off – No power outage, no port error, and no configured alarm

All accompanying materials of the product can be found at:

https://sdx.indu-sol.com/s/HiftDTLpYLbCEoS

General Notes

WARNING
Commissioning and operation of this device may be carried out by qualified personnel only. Qualified personnel are persons who are authorized to commission, ground and label devices, systems and circuits in accordance with the standards of safety engineering.

Something's wrong with your product?
You can reach our technical support team on weekdays between 07:30 am – 04:30 pm (CET) by telephone: +49(0)34491 / 580-321 or send us an e-mail: **support@indu-sol.com**. We will get in touch with you promptly.

Your system is at a standstill?
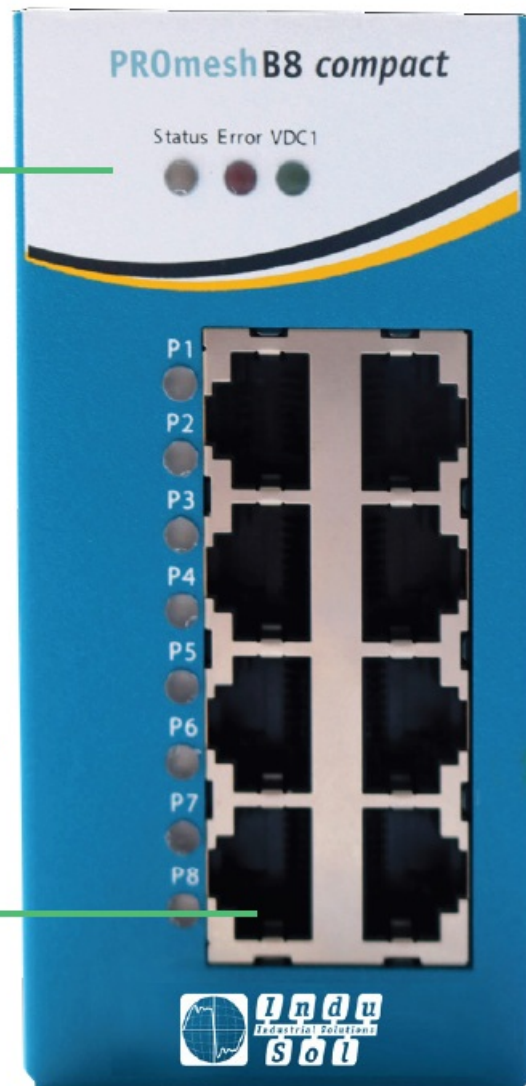Reach out to our emergency service even outside our regular opening hours: +49(0)34491 / 580-0.

Device Connections

Power Supply

VDC1 = DC 24V
GND = 0V Mass
⏚ = functional equipotential
bonding

Status LEDs
Status | Error | VDC1

X 1 Data Ports
8 x RJ45

Technical Data

Voltage Supply	24 VDC
Max. Current Consumption	0,8 A
Max. Power Consumption	8W
Size (H x W x D)	100 x 50 x 60 mm
Weight	350 g
Mounting	35 mm DIN rail
Protection Class	IP20
Storage temperature	-10°C … 60°C
Operating temperature	-10°C … 60°C
Relative Humidity	5% .. 95%, RHD non-condensing
PROFINET Conformance	Class B
PROFINET standard	PROFINET 2.4
Port Mirroring	Rx, Tx+Rx
PROFINET Netload Class	Class III
Data Ports	8x 10/100 MBit/s RJ45
Switching Mode	Store & Forward
Diagnosis & Management	Network load monitoring Port-Mirroring DCP, I&M SNMPv1, v2c, v3

General Information

The PROmesh B8 compact is a full-managed Ethernet/PROFINET switch for industrial automation systems which can be easily and conveniently configured via a web UI. It enables uncomplicated installation of bus, star and ring structures with switching functionality

Safety Instructions
Before putting the PROmesh B8 compact into operation, check whether it is inperfect condition externally. Always observe the technical specifications of the device to ensure safe and optimal use. The PROmesh B8 compact is designed for IP20 protection environments. Take appropriate measures to ensure proper operation of the unit in a different environment

WARNING

In case of suspected damage, please return the PROmesh B8 compact immediately to your supplier and do not put it into operation.
Do not open the housing under any circumstances. Unauthorized opening of the housing will void any warranty claims.
The PROmesh B8 compact is designed for use in PROFINET applications according to Conformance Class B. For complete support of the PROFINET standards, please also observe the selection, layout and wiring of the data ports according to these standards.

- PROmesh B8 compact
- 3-pole 5 mm terminal block (power supply)
- Quickstart User Guide (hardcopy)

Mounting on the DIN Rail

Mount the PROmesh B8 compact upright in the switch cabinet on a 35 mm DIN rail (DIN EN 60715).
NOTE
The following distances to other modules must be observed:

- right / left: 50 mm
- top / bottom: 20 mm

WARNING
Do not mount the PROmesh B8 compact directly next to devices that generate strong electromagnetic interference fields or constantly emit heat to their surroundings. Also protect the PROmesh B8 compact from intense sunlight

Power Supply

- The PROmesh B8 compact is operated with a voltage of 24 VDC, Connect a suitable power source to the labeled terminals of the 3-pin 2,5 mm2 terminal block. Connect the positive lead to one of the VDC contacts and the ammunition lead to the corresponding GND contact.
- If the external power supply is correctly connected and activated, all status LEDs of the PROmesh B8 compact will light up briefly. After a short initialization phase the LEDs go out and the device is ready for operation and can now be configured in the network.

Configuring a Network Connection
Download the Service Tool to your client PC (Windows). You can find the software at the following link:
https://sdx.indu-sol.com/s/HiftDTLpYLbCEoS

NOTE

- Our software is updated regularly. Please, make sure you are using the latest version.
- Connect the PC to a suitable data line on one of the data ports (P1 – 8).
- The PROmesh B8 compact and the client PC must be located in the same IP address range and IP subnet. For this you have to assign a corresponding IP address to your PROmesh B8 compact for the first time. Use the already installed ServiceTool.
- After assigning a suitable IP address and subnet mask, the Web UI of the PROmesh B8 compact can be reached.

The PROmesh B8 compact is delivered with the following factory settings:

IP Adress	0.0.0.0
Subnet mask	0.0.0.0
Gateway	0.0.0.0
Username	admin
Password	admin

After successful installation and start of the software, you can scan the system with the search setting PROFINET-Gerät. The PROmesh B8 compact is displayed in the search result. You can then make and save individual entries in the input mask.

NOTE
Make sure that the IP address you selected has not yet been assigned. If required, you can display IP addresses that have already been assigned using the PROscan® Active V2 license software from Indu-Sol.

WARNING
When logging in for the first time, you must change the factory-set password. It is your responsibility to document this password and protect it against unauthorized access

Accessing the Web User Interface
The device-specific functions of the PROmesh B8 compact can be configured via an integrated Web-UI. Open your browser, enter the IP address of the PROmesh B8 compact configured in the ServiceTool in your browser bar or use the above configuration data. Alternatively, you can right-click on the corresponding list entry in the context menu of the ServiceTool to select „to website".
The Web UI now opens in your standard browser.

NOTE
Further information on the configuration options and troubleshooting can be found at the following link:
https://sdx.indu-sol.com/s/HiftDTLpYLbCEoS

Interpreting LED Displays

LED label	Mode	Meaning
VDC1	Green	Voltage at terminal sufficient
	Off	Voltage at terminal insufficient
Status	Green	Active connection to the PROFINET controller
	Yellow	No active connection to the PROFINET controller
Error	Red	Power failure, port error or configured alarm active
	Off	No power failure, no port error and no confi- gured alarm active
Port Status	On	The port has established a valid network connection
	Flashing	The port is in network communication exchange
	Off	The port has not established a valid network connection

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Certified according to DIN EN ISO 9001:2015

Version 1.0
Date: 23.06.2023
Product Code: 114110520
Printed in Germany
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Documents / Resources

PROmesh B8 8-Port PROFINET And Ethernet IP Managed Switch [pdf] User Guide
B8 8-Port PROFINET And Ethernet IP Managed Switch, B8 8-Port, PROFINET And Ethernet IP Managed Switch, And Ethernet IP Managed Switch, Ethernet IP Managed Switch, IP Managed Switch, Managed Switch

References

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