

Managed SWITCH PROmesh B16

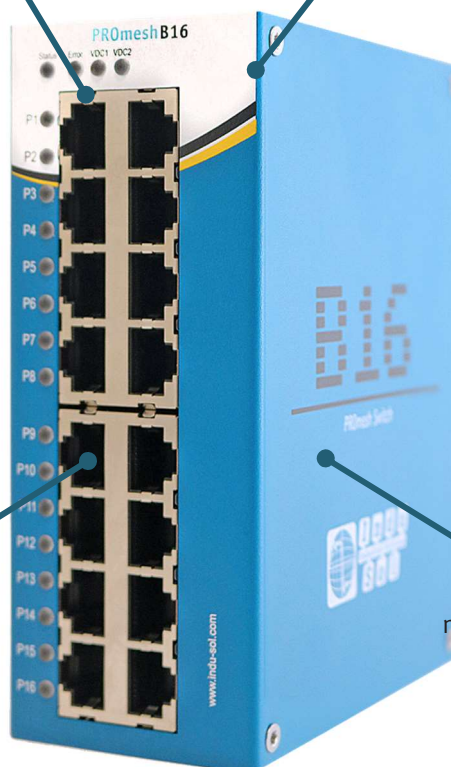
Item no.: 114110510

The PROmesh B16 is a fully-managed Industrial Ethernet/PROFINET switch for industrial automation systems.

The compact design, simple mounting on the top-hat rail and its optimized thermal properties save you space in the control cabinet.

You can configure it easily and conveniently via its integrated web interface.

Can be used for all Ethernet-based networks, such as PROFINET networks.



HIGHLIGHTS

Industrial application:



- PROFINET (GSDML-File)

High Performance:



- Transfer rates up to 100 Mbit/s
- Quality of Service
- 8 Priority Queues

Managed SWITCH PROmesh B16| Technical Details

Network interfaces	
RJ45 Ports	
Interfaces	16 (designation P1 – P16)
Transmission rates	10 Mbit/s 100 Mbit/s
Status LED	Link + data exchange
Further device interfaces	
Status LED	VDC 1 VDC 2 Status Error
Reset	Button
Supply voltage, 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
Functional earthing (FE)	1 x 0,2 – 2,5 mm ²
Alarm contact	2 x 0,2 – 2,5 mm ²
Operating parameters	
Supply voltage (nominal value)	24 VDC
Supply voltage (min.)	12 VDC
Supply voltage (max.)	48 VDC
Current consumption (max.)	0,48 A
Power loss (max.)	5,7 W.
Fuse protection (supply voltage input)	3 A/ 125 VDC
Design, dimensions, weight	
Design	Compact
Material (housing)	Metal
Mounting	Top hat rail
Width	53 mm
Height	138 mm
Depth	110 mm
Installation distance (vertical)	20 - 50 mm
Installation distance (horizontal)	20 - 50 mm
Weight (net)	800 g

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Environmental conditions	
Operating temperature	-10 – 60°C
Storage temperature	-10 – 60°C
Humidity, rel.	5 – 95% non-condensing
Protection class	IP30
Functions	
Basic parameters	
Switching technology	Store-and-Forward
MAC address table	16 k
Switch memory	2 Mbit
Backplane capacity	13,4 Gbit/s
Throughput	3,7 Mpps
MTBF	42 years
Quality of Service (QoS)	
Queues pro Port	8
Prioritization functions	Port-based Class of Service (CoS) Type of Service (ToS)
Prioritization methods	Strict prioritization Weighted prioritization
Bandwidth control	Inbound and outbound
VLAN	
Protocol function	Port-based
Quantity	4096
Protocols/Services	
Management access	http https
Network access	SNMPv1 SNMPv2c SNMPv3 DHCP Client
E-mail	SMTP Client
Time synchronization	SNTP Client
Neighborhood	LLDP
IP setting	Static PROFINET DHCP
Multicast/Broadcast	Broadcast limitation IGMP Snooping (max multicast group is 512)
Redundancy	MRP Master MRP Client STP RSTP Static link aggregation Dynamic link aggregation
Eventlog	Syslog

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Applications	
PROFINET	
Standard	PROFINET 2.4
Device class	Device
Conformity class	B
Netload Class	III
Realtime Class	1
Diagnosis	
Functions	
Port statistics	Erros Discards Network load/ms + Network load/s Nachbarschaft
Temperature	Measuring range -40 – 120°C Resolution 1°C
Port Mirroring	Incoming or incoming and outgoing packets Multiple source ports possible
Alerting	
Trigger	Portstatus Networkload Neighborhood Temperature MRP Discards Errors
Receiver	PROFINET E-mail SNMP Trap Alarm contact

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Standards, guidelines, approvals	
EMC	
Guideline	2014/30/EU
Interference emission	EN 55032
Interference immunity	EN 61000-6-2
Mechanical stability	
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Approval	
Europe	CE
USA	UL
Canada	CSA
Environment	
RoHS	2011/65/EU
REACH	1907/2006/EG
FCC	
Overvoltage protection	IEC 6100045, Level 3
EFT	IEC 6100044

Managed SWITCH PROmesh B16| Technical Drawing

