

## Managed Switch PROmesh B16

### PROmesh B16



Art.-Nr.: 114110512

### HIGHLIGHTS



16 RJ45 Ports

#### Design Data Engineering:

- E-Plan | Step
- GSDML (PROFINET)
- EDS (Ethernet/IP)



#### Industry Applications:

- PROFINET
- Ethernet/IP



#### Country approvals:

- UL | CSA
- CE | UKCA



#### Performance:

- Memory: 2 Mbit
- Backplan capacity: 13,4 Gbit/s
- Throughput: 3,7 Mpps



#### Sustainability:

- Lead-free
- Lowpower consumption

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### Technical details

Network interfaces	
RJ45 Ports	
■ Interfaces	16
■ Transmission rates	10 Mbit/s 100 Mbit/s
■ Status LED	Link + Data communication
Supply voltage, current consumption, power dissipation, alarm contact	
Connections	
■ Power supply	2 x 0,2 – 2,5 mm <sup>2</sup>
■ Redundant power supply	2 x 0,2 – 2,5 mm <sup>2</sup>
■ functional earthing	1 x 0,2 – 2,5 mm <sup>2</sup>
■ Alarm contact (relay)	2 x 0,2 – 2,5 mm <sup>2</sup>
Operating parameters	
■ Supply voltage (nominal value)	24 VDC, redundant
■ Supply voltage (min.)	12 VDC
■ Supply voltage (max.)	36 VDC
Environmental conditions	
■ Operating temperature	-10°C ... 60°C
■ Storage temperature	-10°C ... 60°C
■ Humidity, rel.	<95% RHD, non-condensing
Design, Dimensions, Weights	
■ Design	compact, passive cooling
■ Material (housing)	sheet metal housing, painted
■ Mounting	35 mm DIN-Hutschiene (0°, 90°)
■ Width	53 mm
■ Height	138 mm
■ Depth	110 mm
■ Mounting distance (Vertical)	50 mm
■ Mounting distance (horizontal)	20 mm
Further device interfaces	
■ Status LED	VDC1 VDC2 Status Error
■ Reset	Taster
Functions	
Basic parameters	
■ Switching Technology	Store & Forward
■ MAC address table	16 K
■ Packet memory	2 Mbit
■ Backplane capacity	13,4 Gbit/s
■ Throughput	3,7 Mpps

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### Technical Details

Functions	
Quality of Service (QoS)	
■ Queues pro Port	8
■ Prioritization methods	Strict prioritization Weighted prioritization
■ Bandwidth control	inbound and outbound
■ Port prioritization	yes
■ COS: Class of Service	yes
■ TOS: Type of Service	yes
VLAN	
■ Log function	yes
■ Tagged	yes
■ Quantity	4096
Protocols/Services	
■ Management access	HTTP HTTPS Webmanagement PROmanage NT
■ Network	SNMPv1 SNMPv2c SNMPv3
■ Time synchronization	SNTP Client
■ Neighborhood	LLDP
■ Multicast Groups	Static Multicast IGMP Snooping Broadcast limitation
■ Redundancy	MRP Master MRP Client STP RSTP
■ Event log	Syslog
■ IP Setting	Static PROFINET ETHERNET/IP
■ Multicast/Broadcast	Static Multicast IGMP Snooping Broadcast limitation
Application-specific	
Protocols/Services	
■ Standard	V 2.4
■ Conformity Class	B
■ Netload Class	III
■ real-time class:	1
ETHERNET/IP	
■ ETHERNET/IP	yes

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### Technical Details

Diagnosis	
Functions	
<ul style="list-style-type: none"> <li>Port statistics:</li> </ul>	Errors Discards Neighborhood
<ul style="list-style-type: none"> <li>supply voltage</li> </ul>	Up/Down
<ul style="list-style-type: none"> <li>Port Mirroring</li> </ul>	Incoming or incoming and outgoing packets Multiple source ports possible
Alerting	
<ul style="list-style-type: none"> <li>Trigger</li> </ul>	Port (Down, Status Change) Neighborhood Supply voltage MRP
<ul style="list-style-type: none"> <li>Receiver</li> </ul>	PROFINET Alarm contact (relay)
Security	
<ul style="list-style-type: none"> <li>Security</li> </ul>	User accounts (individual login) Port Alarm
Standards, guidelines, approvals	
EMV	
<ul style="list-style-type: none"> <li>Directive</li> </ul>	2014/30/EU
<ul style="list-style-type: none"> <li>interference emission</li> </ul>	EN 55032
<ul style="list-style-type: none"> <li>noise immunity</li> </ul>	EN 61000-6-2
Mechanical stability	
<ul style="list-style-type: none"> <li>Vibration</li> </ul>	IEC 60068-2-6
<ul style="list-style-type: none"> <li>Schock</li> </ul>	IEC 60068-2-27
<ul style="list-style-type: none"> <li>Free Fall</li> </ul>	IEC 60068-2-32
Approval	
<ul style="list-style-type: none"> <li>Europe</li> </ul>	CE
<ul style="list-style-type: none"> <li>USA</li> </ul>	UL
<ul style="list-style-type: none"> <li>Canada</li> </ul>	CSA
Environment	
<ul style="list-style-type: none"> <li>RoHS</li> </ul>	2011/65/EU
<ul style="list-style-type: none"> <li>REACH</li> </ul>	1907/2006/EG