

Product type designation

OSM TP22
SIMATIC NET, OSM TP22 OPTICAL SWITCH MODULE W. 2 FOC
CABLE PORTS 100MBIT/S, 2 RJ45 PORTS, 10/100MBIT/S AND 4
DIGITAL INPUTS, RED. 24V DC SUPPLY, SIGNALLING CONTACT,
INTEGRATED REDUNDANCY MANAGER W. NETWORK
MANAGEMENT



Transmission rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	
Interfaces / for communication / integrated		
Number of electrical connections		
• for network components or terminal equipment	2	
Number of 100 Mbit/s ST(BFOC) ports		
• for multimode	2	
Number of 100 Mbit/s SC ports		
• for multimode	0	
Number of 1000 Mbit/s LC ports		
• for multimode	0	
• for single mode (LD)	0	
Interfaces / others		
Number of electrical connections		
• for signaling contact	1	
• for power supply	1	
• for redundant voltage supply	1	

Type of electrical connection	
• for signaling contact • for power supply	On 6-pole terminal block 6-pole plug-in terminal block

Signal-Inputs/outputs

Operating voltage / of the signaling contacts	
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A
Number of digital inputs	4
Number of electrical connections / for digital input signals	1
Type of electrical connection / for digital input signals	4-pole plug-in terminal block
Signal voltage	
• for signal <0> / at DC — Rated value • for signal <1> / at DC — Rated value	-30 ... +3 V 24 V 13 ... 30 V 24 V
Input current / at digital input	
• with signal <0> / maximum • for signal <1>	0.008 mA 0.008 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
• external • external	24 V 18 ... 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	T 1.6 A / 250 V
Consumed current / maximum	1 A
Power loss [W]	
• at DC / at 24 V	20 W

Permitted ambient conditions

Ambient temperature	
• during operation • during storage • during transport	0 ... 60 °C -40 ... +80 °C -40 ... +80 °C
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight

Width	217 mm
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Height	161 mm
Depth	69 mm
Net weight	1.4 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
• fixed-mounted	Yes

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of $< \sim 0.3 \text{ s}$	50
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• RMON	Yes
• Port mirroring	Yes
• multiport mirroring	No
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
Protocol / is supported	
• SNMP v1	Yes

Product functions / Diagnosis

Product function	
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes

Product functions / DHCP

Product function	
• DHCP client	Yes

Product functions / Redundancy

Product function	
• Ring redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
Product functions / Time	
Product function	
• SICLOCK support	Yes
Standards, specifications, approvals	
Standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T.. A, CL.1, Zone 2, GP. IIC, T4
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for emitted interference	EN 61000-6-4
• for interference immunity	EN 61000-6-2
Certificate of suitability / CE marking	Yes
Certificate of suitability	
• C-Tick	Yes
• KC approval	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

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last modified:

07/08/2016