

Product type designation

OSM ITP53
SIMATIC NET, OSM ITP53 OPTICAL SWITCH MOD. W. 3 FOC PORTS 100 MBIT/S, 5 ITP PORTS 10/100 MBIT/S AND 8 DIGITAL INPUTS; REDUNDANT 24V DC SUPPLY, SIGNAL CONTACT, INTEGRATED REDUNDANCY MANAGER WITH NETWORK MANAGEMENT AMBIENT TEMPERATURE MAX. +55 DEGR. C.



Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces	
Number of electrical/optical connections for network components or terminal equipment / maximum	8
Type of electrical connection for network components or terminal equipment	9-pin Sub-D socket (10/100 Mbit/s)
Number of optical interfaces for fiber optic cable / at 100 Mbit/s	3
Design of the optical interface for fiber optic cable / at 100 Mbit/s	BFOC sockets (multimode up to 3 km)
Interfaces / for communication / integrated	
Number of electrical connections / for network components or terminal equipment	5
Number of 100 Mbit/s ST(BFOC) ports for multimode	3

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	On 6-pole terminal block
• for power supply	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	8
Number of electrical connections / for digital input signals	2
Type of electrical connection / for digital input signals	4-pole plug-in terminal block
Signal voltage	
• for signal <0> / at DC	-30 ... +3 V
— Rated value	24 V
• for signal <1> / at DC	13 ... 30 V
— Rated value	24 V
Input current / at digital input	
• with signal <0> / maximum	0.008 mA
• for signal <1>	0.008 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external	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	0 ... 60 °C
• during storage	-40 ... +80 °C
• during transport	-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
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	Yes
• 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
- Statistics packet type
- Error statistics

Yes
Yes
Yes

Product functions / DHCP

Product function

- DHCP client

Yes

Product functions / Redundancy

Product function

- Ring redundancy
- High Speed Redundancy Protocol (HRP)
- high speed redundancy protocol (HRP) with redundancy manager
- high speed redundancy protocol (HRP) with standby redundancy

Yes
Yes
Yes
Yes

Product function

- media redundancy protocol (MRP) with redundancy manager

Yes

Product functions / Time

Product function

- SICLOCK support

Yes

Standards, specifications, approvals

Standard

- for FM
- for safety / from CSA and UL
- for emitted interference
- for interference immunity

FM3611: Class 1, Divison 2, Group A, B, C, D / T.. A, CL.1, Zone 2, GP. IIC, T4
UL 60950-1, CSA C22.2 No. 60950-1
EN 61000-6-4
EN 61000-6-2

Certificate of suitability

- CE marking
- C-Tick
- KC approval

Yes
Yes
No

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)

Yes
Yes
Yes
Yes
Yes
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 <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

Security information

Security information

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