SIEMENS

Data sheet 6GK1105-2AD10

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 / 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	2
signals	
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	

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 / genera	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
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
• 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, 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 • for safety / from CSA and UL

• for emitted interference	EN 61000-6-4
• for interference immunity	EN 61000-6-2
Certificate of suitability / CF marking	Yes

C-Tick	Yes
KC approval	No

Marine classification association	
 American Bureau of Shipping Europe Ltd. 	Yes

(ABS)	
● Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
 Germanische Lloyd (GL) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
● Nippon Kaiji Kyokai (NK)	Yes

Further	Informatic	on / Interne	t Links

• Polski Rejestr Statkow (PRS)

Certificate of suitability

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

Yes

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

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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