SIEMENS

Data sheet

6GK1105-2AE00

OSM TP22 Optical Switch Module with two LWL Ports 100 Mbit/s, two RJ45 Ports 10/100 Mbit/s and 4 digital inputs redundant 24 V DC infeed, Signaling contact Integrated Redundancy manager with network management;



Product type designation	SIMATIC NET OSM TP22	
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	
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	4	
Number of electrical connections / for digital input	1	
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 / minimum	18 V	
• external / maximum	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	95 %	
operation / maximum		
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	No	
• S7-1500 rail mounting	No	
• fixed-mounted	Yes	
Product properties, functions, components / general		
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	
Product function / 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	
	100	
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
 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
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / miscellaneou	S
Certificate of suitability	
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• C-Tick	Yes
	Yes No
 C-Tick KC approval Standards, specifications, approvals / ship classific 	No
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 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	Siemens provides products and solutions with industrial security
	functions that support the secure operation of plants, solutions,
	machines, equipment and/or networks. They are important
	components in a holistic industrial security concept. With this in
	mind, Siemens' products and solutions undergo continuous
	development. Siemens recommends strongly that you regularly
	check for product updates. For the secure operation of Siemens
	products and solutions, it is necessary to take suitable preventive
	action(e.g. cell protection concept) and integrate each component
	into a holistic, state-of-the-art industrial security concept. Third-
	party products that may be in use should also be considered. For
	more information about industrial security, visit
	http://www.siemens.com/industrialsecurity. To stay informed about
	product updates as they occur, sign up for a product-specific
	newsletter. For more information, visit
	http://support.automation.siemens.com. (V3.4)

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