SIEMENS

Data sheet

6GK1105-3AA10

Product type designation

ESM ITP80

SIMATIC NET, ESM ITP80 ELECTRICAL SWITCH MODULE WITH 8 ITP-PORTS 10/100MBIT/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 	8	
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	

6-pole plug-in 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	6-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 / 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		
	Yes	
Statistics Packet Size	Yes	
Statistics packet type		
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	
 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	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
- to website: Industry Online Support

http://www.siemens.com/cax

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. Thirdparty 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)

last modified:

06/13/2017