6GK5216-0UA00-5ES6

Data sheet



SCALANCE XP216PoE EEC, managed IE switch, with railway approval IEC 62443-4-2 certified; (EN 50155, EN45545); 12x 10/100 Mbps M12 ports, 4x 10/100/1000 Mbps M12 ports IP65, LED diagnostics, error signaling contact, redundant power supply, PROFINET IO device, network management, can be operated in redundant ring, incl. dust caps, incl. electronic manual on CD-ROM, C-plug optional

product type designation	SCALANCE XP216PoE EEC	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s	
interfaces / for communication / integrated		
number of electrical connections		
 for network components or terminal equipment 	16	
number of 10/100 Mbit/s M12-ports (D-coded) / integrated	6	
• with PoE	6	
number of 10/100/1000 Mbit/s M12-ports (X-coded) / integrated	2	
• with PoE	2	
interfaces / other		
number of electrical connections		
 for operator console 	1	
 for signaling contact 	1	
for power supply	1	
type of electrical connection		
 for operator console 	5 pin M12 socket (A coded)	
 for signaling contact 	5-pin M12 connector (B-coded)	
for power supply	4-pin M12 plug (A-coded)	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
at DC / rated value	54 V	
operational current / of the signaling contacts		
at DC / maximum	0.1 A	
supply voltage, current consumption, power loss		
product component / connection for redundant voltage supply	Yes	
supplied active power / of PSE / with PoE		
per port / maximum	30 W	
• total / maximum	120 W	
type of voltage / 1 / of the supply voltage	DC	
supply voltage / 1 / rated value	54 V	
power loss [W] / 1 / rated value	13 W	
 consumed current / 1 / at rated supply voltage / maximum 	2.5 A	

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supply voltage / 1 / rated value	46 57 V
consumed current / 1 / maximum	2.5 A
product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
• note	EEC variants with EN 50155 support for 10 minutes: -40 °C +85 °C
relative humidity	
at 25 °C / without condensation / during operation /	95 %
maximumprotection class IP	IP65
·	1F03
design, dimensions and weights	
design	compact
width	280 mm
height	200 mm
depth	49 mm
net weight	2.5 kg
product feature / conformal coating	Yes
material / of the enclosure	Aluminum
fastening method	ET200pro module carrier
wall mounting	Yes
product features, product functions, product components	/ general
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	ng
product function	
• CLI	Yes
 web-based management 	Yes
MIB support	Yes
TRAPs via email	Yes
 configuration with STEP 7 	Yes
• RMON	Yes
• port mirroring	Yes
multiport mirroring	Yes
• CoS	Yes
with IRT / PROFINET IO switch	No
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1518 byte
protocol / is supported	·
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
SNMP v1	Yes
SNMP v2 SNMP v2	Yes
SNMP v3 ICMP (appening/quarier)	Yes
IGMP (snooping/querier) Identification 9 maintenance function	Yes
identification & maintenance function	

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1&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
 port diagnostics 	Yes
 statistics Packet Size 	Yes
 statistics packet type 	Yes
error statistics	Yes
• SysLog	Yes
loopback diagnostics	Yes
product functions / VLAN	
product function	
 VLAN - port based 	Yes
 VLAN - protocol-based 	No
 VLAN - IP-based 	No
VLAN dynamic	No
number of VLANs / maximum	4094
product functions / DHCP	
product function	
DHCP server	Yes
DHCP client	Yes
DHCP Option 82	Yes
 DHCP Option 66 	Yes
DHCP Option 67	Yes
product functions / redundancy	
product function	
 of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes
• 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
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
 media redundancy protocol (MRP) with redundancy manager 	Yes
 Media Redundancy Protocol Interconnection (MRP-I) 	Yes
 of the PROFINET IO device / is supported / H-Sync forwarding 	Yes
 redundancy procedure RSTP 	Yes
redundancy procedure RSTP+	Yes
 redundancy procedure MSTP 	Yes
 passive listening 	Yes
product functions / security	
product function	
RADIUS client	Yes
protocol / is supported	
• SSH	Yes
• SSL	Yes
product functions / time	
product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
protocol / is supported	

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• NTP	Yes
• SNTP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, 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 (Class A)
for interference immunity	EN 61000-6-2
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
certificate of suitability / RoHS conformity	Yes
standards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07
• from CSA and UL	ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4
certificate of suitability	, , , , , , , , , , , , , , , , , , , ,
CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / other	
certificate of suitability	
C-Tick	Yes
KC approval	Yes
• E1 approval	Yes
• E1 approval	Yes
railway application in accordance with EN 50155	Yes
• railway application in accordance with EN 50124-1	Yes
• fire protection in accordance with EN 45545-2	Yes
accessories	
product extension / optional / C-PLUG	Yes
further information / internet-Links	165
Internet-Link	http://www.cicmono.com/tip.coloction.tool
to web page: selection aid TIA Selection Tool to web sites Industrial communication.	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall to web site Information and Reverted Contact	https://mall.industry.siemens.com
to website: Information and Download Center to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image database to website: CAX Deveload Manager	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager to website: Industry Online Support	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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