SIEMENS

Data sheet

product type designation



SCALANCE XC216-3G PoE manageb. Layer 2 IE PoE Switch; 14x 10, 100/1000 Mbit/s; RJ45 PoE Ports according to IEEE802.3at; 2 ports thereof according to IEEE802.3bt; IEC 62443-4-2 certified 2x 10/100/1,000 Mbps RJ45; 2x 1,000, 10,000 Mbps SFP+; 1x 1,000 Mbps SFP; PoE support for 24 V DC infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; redundancy functions; Office features (RSTP, VLAN, ...); PROFINET device; Ethernet /IP-complia(*)

product type designation	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	16; RJ45
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
with securing collar	16; 12 PoE ports according to IEEE 802.3at (30 W), 2 PoE ports according to IEEE 802.3bt (60 W)
with securing collar / with PoE	14
number of electrical connections	
• for SFP	3
interfaces / for communication / plug-in	
number of electrical connections	
• for SFP	1; SFPs with 1000 Mbit/s, 100 Mbit/s with SFP991-1(LD) A possible
• for SFP+	2; SFPs with 1000 Mbit/s or 10,000 Mbit/s possible; 100 Mbit/s with SFP991-1(LD) A possible
interfaces / other	
number of electrical connections	
 for operator console 	1
for signaling contact	1
type of electrical connection	
 for operator console 	RJ11
 for signaling contact 	2-pole terminal block
for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
at DC / rated value	24 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	
total / maximum	150 W
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	28 W

SCALANCE

- cumply yellows / 4 / retail yello	40.0 24.0 \
supply voltage / 1 / rated value	19.2 31.2 V
consumed current / 1 / maximum product component / 1 / fusing at power curply input.	7.8 A
 product component / 1 / fusing at power supply input fuse protection type / 1 / at input for supply voltage 	Yes 15 A / 125 V
ambient conditions	13 A / 123 V
ambient temperature	-40 +60 °C
during operationduring storage	-40 +85 °C
during storage during transport	-40 +85 °C
• note	installation position and SFPs used during the operation have to be
	considered (see manual)
relative humidity	
 at 25 °C / without condensation / during operation / 	95 %
maximum	IDOO
protection class IP	IP20
design, dimensions and weights	
design	compact
width	180 mm
height	147 mm
depth	125 mm
net weight	1.56 kg
product feature / conformal coating material / of the enclosure	No Polycarhonate (PC-GE10) / pressure die cast aluminum
fastening method	Polycarbonate (PC-GF10) / pressure die cast aluminum
35 mm top hat DIN rail mounting	Yes
wall mounting	No
S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
product features, product functions, product components	**
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 function / QoS according to DSCP	Yes
product feature	
 Cut Through switching method 	No
 Store & Forward switching method 	Yes
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
SMTP server	No
• port mirroring	Yes
multiport mirroring	Yes
• COS	Yes
PROFINET IO diagnosis PROFINET conformity class	Yes
PROFINET conformity class	B 3
network load class / according to PROFINET	Yes
product function / switch-managed	
telegram length / for Ethernet / maximum protocol / is supported	10240 byte
Telnet	Yes
HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• BOOTP	No
• GMRP	Yes

■ LLDP ■ EtherNoUIP ■ EtherNoU		
SNMP v1 SNMP v2 SNMP v3 SNMP	• DCP	Yes
SNMP v1 SNMP v2 SNMP v2 SNMP v2 SNMP v2 SNMP v2 SNMP v2 SNMP v3 SNMP	• LLDP	
SNMP v3 SNMP		
SMAP v3 SMAP		Yes
Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification & Identification	• SNMP v2	Yes
Identification & maintenance function I&M - device-specific information Yes	• SNMP v3	Yes
IAMD - device-specific information Yes	IGMP (snooping/querier)	Yes
• I&A1 - higher level designation/location designation product functions / diagnostics	identification & maintenance function	
product function	 I&M0 - device-specific information 	Yes
product function • port diagnostics • statistics Packet Size • statistics packet type • serior statistics • Syst.og product functions / VLAN product function • VLAN - port based • VES • PORT based • VES • PO	 I&M1 – higher level designation/location designation 	Yes
• port diagnostics • statistics packet type • statistics packet type • error statistics • SysLog • Pes • SysLog product functions • VLAN - port based • VLAN - protocol-based • VLAN	product functions / diagnostics	
statistics Packet Size statistics packet type error statistics SysLog product functions VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - protocol-funcion • VLANS - dynamic / maximum 257 number of VLANS - dynamic / ves 0 DHCP option 8	product function	
statistics packet type error statistics SysLog Yes SysLog Yes SysLog Yes SysLog Yes SysLog Yes VLAN - protocol-based VLAN - protocol-based VLAN - protocol-based VLAN - protocol-based No VLAN - Protocol-based No No VLAN - Protocol-based No No VLAN - Wash -	 port diagnostics 	Yes
error statistics error statistics eysplog product functions / VLAN product function VLAN - protocol-based vUAN - protocol-based vuantification veal vuantification	statistics Packet Size	Yes
e error statistics	 statistics packet type 	Yes
• SysLog Product function / VLAN protabled Product function • VLAN - port based Yes • VLAN - port based No • VLAN - Porbased No • VLAN - Probased No • VLAN - Probased No number of VLANs / maximum		Yes
product functions / VLAN product function • VLAN - prot based • VLAN - protocol-based • VLAN - protocol-based • VLAN - Probased number of VLANs / maximum 257 number of VLANs - dynamic / dynami		Yes
product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based No number of VLANs / maximum number of VLANs - dynamic / maximum 257 number of VLANs / at ring redundancy (HRP; MRP; Standby link) protocol / is supported / GVRP product functions / DHCP product functions / DHCP product functions / DHCP DHCP Option 82 • DHCP Option 82 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 • DHCP Standby link) • DHCP Option 67 • PROFINET IO device / is supported / PROFINET system redundancy • ring redundancy • ring redundancy protocol (HRP) with redundancy • high speed redundancy protocol (HRP) with redundancy • high speed redundancy protocol (HRP) with redundancy • protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy redundancy • redundancy • redundancy • redundancy protocol (MRP) with redundancy manager • Media Redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol (MRP) with redundancy redundancy • redundancy procedure RTP • redundancy procedure MSTP • redundancy procedure RTP • Parallel Redundancy Protocol (PRP)/Redundant Nevork Access (RNA) No		
• VLAN - protocol-based • No number of VLANs - dynamic / maximum 257 number of VLANs / dynamic /		
VLAN - protocol-based No No NULAN - IP-based No No NULAN - IP-based No No No NULAN - IP-based No No No Number of VLANs - IP-based Part No	•	Yes
VLAN - IP-based number of VLANs - dynamium 257 number of VLANs - dynamic / maximum 257 number of VLANs - dynamic / maximum 257 number of VLANs - dynamic / maximum 35 standby link) protocol / is supported / GVRP Yes product functions / DHCP product functions / DHCP product functions / DHCP product functions / DHCP product function		
number of VLANs / maximum 257 number of VLANs / dring redundancy (HRP; MRP; 35 slandby link) protocol / is supported / GVRP Yes product function	•	
number of VLANs - dynamic / maximum number of VLANs - dxt ring redundancy (HRP; MRP; standby link) protocol / is supported / GVRP product functions / DHCP product function DHCP server DHCP option 82 DHCP Option 82 DHCP Option 66 DHCP Option 67 Product function of the PROFINET IO device / is supported / PROFINET system redundancy redundancy manager high speed redundancy protocol (HRP) with standby redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) media redundancy protocol (MRP) with redundancy manager Media Redundancy Protocol (MRP) with redundancy manager Media Redundancy Protocol (MRP) or of the PROFINET IO device / is supported / Yes redundancy protocol / is supported / Media Redundancy Protocol (MRP) or of the PROFINET IO device / is supported / H-Sync forwarding redundancy protocol (MRP) with redundancy manager Media Redundancy protocol (MRP) with redundancy manager Media Redundancy protocol (MRP) redundancy procedure RSTP Parallel Redundancy Protocol (PRP)/Pedindin in the PRP-network Parallel Redundancy Protocol (PRP)/Pedindin in Network Access (RNA)		
number of VLANs / at ring redundancy (HRP; MRP; standby link) protocol / is supported / GVRP product functions / DHCP product function		
standby link) product functions / DHCP product functions / DHCP product function • DHCP server		
product function DHCP server DHCP Client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product function of the PROFINET IO device / is supported / Presudundancy Protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol / is supported / Media Redundancy Protocol / is supported / Product function Media Redundancy Protocol (HRP) with redundancy Product function Media Redundancy Protocol (HRP) with redundancy Product function Media Redundancy Protocol (HRP) with redundancy Protocol / is supported / Media Redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function Media Redundancy Protocol (IMRP) with redundancy manager Media Redundancy Protocol Interconnection (MRP-I) of the PROFINET IO device / is supported / H-Sync forwarding redundancy procedure RSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)		35
product function • DHCP server • DHCP Client • DHCP Option 82 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 • DHCP Option 67 • OHCP OPTION FOR OHT OPTION OF OHT OPTION OF OHT OPTION OF OHT OPTION OHT	protocol / is supported / GVRP	Yes
product function • DHCP server • DHCP Client • DHCP Option 82 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 • DHCP Option 67 • OHCP OPTION 67	product functions / DHCP	
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DHCP Option 67 Product functions / redundancy product function		
product function / e of the PROFINET IO device / is supported / PROFINET system redundancy	·	
product function • of the PROFINET IO device / is supported / PROFINET system redundancy • ring redundancy • ring redundancy • high Speed Redundancy Protocol (HRP) Yes redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy yes manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure RSTP+ • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA)		100
of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy ing redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager Media Redundancy Protocol Interconnection (MRP-I) of the PROFINET IO device / is supported / H-Sync forwarding redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/Operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA)		
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redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)		Ves
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product function • media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP+ • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)		Yes
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 of the PROFINET IO device / is supported / H-Sync forwarding redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure RSTP+ redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	Media Redundancy Protocol Interconnection (MRP-	Yes
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 redundancy procedure RSTP redundancy procedure RSTP+ redundancy procedure MSTP redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	3	Yes
 redundancy procedure RSTP+ redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) No 		
 redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 		
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the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)		
Network Access (RNA)	the PRP-network	163
passive listening Yes	Network Access (RNA)	
	passive listening	Yes

protocol / is supported	
• LACP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
 broadcast/multicast/unicast limiter 	Yes
 broadcast blocking 	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	
• NTP	Yes
• SNTP	Yes
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system modification during operation	V
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
standard	
for emitted interference	EN 61000-6-4:2001 (Class A)
for interference immunity	EN 61000-6-2:2001
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	24.6 y
reference code	
according to IEC 81346-2	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
for EMC interference emission	EN 61000-6-4, EN 50121-15
• for immunity to EMC	EN 61000-6-2, EN 50121-4
certificate of suitability / RoHS conformity	Yes; 2011/65/EU
accessories	
product extension / optional / C-PLUG	Yes
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further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
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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