SIEMENS

Data sheet

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6GK5424-8TR00-2AC2

SCALANCE XC416-8 managed Layer 3 IE switch, 16x 10/100/1000 Mbps RJ45, 8x 1/10 Gbps SFP+ port, LED diagnostics,error signaling contact with Select/set pushbutton, PROFINET IO Device, network management, redundancy functions, office features (RSTP, VLAN, IGMP,..) CLP included in scope of supply assembly: DIN rail/S7 mounting rail layer 3 integrated;

product type designation	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
number of ports / maximum	24
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	16; RJ45 with securing collar
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
with securing collar	16
number of electrical connections	
• for SFP+	8; 1000 Mbps and 10000 Mbps SFP usable
interfaces / other	
number of electrical connections	
 for operator console 	1
 for signaling contact 	1
 for power supply 	2
type of electrical connection	
 for operator console 	USB (2.0 Port, Type B, serial via USB)
 for signaling contact 	2-pole terminal block
 for power supply 	2 x 2-pin terminal block
design of the removable storage	
• CLP	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
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
 power loss [W] / 1 / rated value 	43.2 W
 supply voltage / 1 / rated value 	19.2 28.8 V
 consumed current / 1 / maximum 	1.8 A
• type of electrical connection / 1 / for power supply	2 x 2-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
ambient conditions	

-40 ... +60 °C

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during operation

ambient temperature



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during storage	-40 +85 °C
during storage during transport	-40 +85 °C
relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
operating condition / fanless operation	Yes
protection class IP	IP20
design, dimensions and weights	
design	compact
width	210 mm
height	147 mm
depth	125 mm
net weight	1.8 kg
fastening method	
 19-inch installation 	No
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
• S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components / gene	eral
cascading in the case of a redundant ring / at reconfiguration	50
time of <\~0.3\~s	
number of automatically learnable MAC addresses	16382
number of QoS queues / per port	8
product function / QoS according to IEEE 802.1Q	Yes
product feature	
 Store & Forward switching method 	Yes
product functions / management, configuration, engineering	
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
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	9194 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• SFTP	Yes
• BOOTP	Yes
NETCONF	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	



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I&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
product functions / VLAN	
product function	
 VLAN - port based 	Yes
 VLAN - protocol-based 	No
 VLAN - IP-based 	No
VLAN dynamic	Yes
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
protocol / is supported / GVRP	Yes
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 / routing	
service / routing / note	IP routing integrated
product function	
 static IP routing 	Yes
~	
static IP routing IPv6	No
-	No Yes
static IP routing IPv6	
static IP routing IPv6 dynamic IP routing	Yes
 static IP routing dynamic IP routing dynamic IP routing IPv6 	Yes
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported	Yes No
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2	Yes No Yes
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6	Yes No No
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2	Yes No Yes
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6	Yes No Yes No No
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP	Yes No Yes No Yes
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6	Yes No Yes No Yes
static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy	Yes No Yes No Yes
 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET 	Yes No Yes No Yes No
 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes No Yes No Yes No Yes
 static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy 	Yes No Yes No Yes No Yes Yes
 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy 	Yes No Yes No Yes No Yes No
 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy ring redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby 	Yes No Yes No Yes No Yes Yes Yes Yes Yes
 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy ring redundancy protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy 	Yes No Yes No Yes No Yes Yes Yes Yes Yes Yes
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 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy ring redundancy protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy product function Media redundancy Protocol (MRP) with redundancy manager Media Redundancy Protocol Interconnection (MRP-I) redundancy procedure STP 	Yes No Yes No Yes No Yes Yes Yes Yes Yes Yes Yes
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 static IP routing IPv6 dynamic IP routing IPv6 protocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 product functions / redundancy product function of the PROFINET IO device / is supported / PROFINET system redundancy ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy product function media redundancy protocol (MRP) with redundancy manager Media Redundancy Protocol Interconnection (MRP-I) redundancy procedure STP redundancy procedure RSTP+ 	Yes No Yes No Yes No Yes No Yes No Yes Yes <tr td=""></tr>
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• LACP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
ACL - port/MAC-based	Yes
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
 IEEE 1588 v2 transparent forwarding 	Yes
protocol / is supported	
● NTP	Yes
• SNTP	Yes
accuracy / at IEEE 1588 v2	
• not less than	100 µs
● typical	50 ns
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
standard	
 for safety / from CSA and UL 	UL 60950-1; CSA C22.2 No. 213-M1987
for emitted interference	EN 61000-6-4 (Class A)
 for interference immunity 	EN 61000-6-2
reference code	
 according to IEC 81346-2 	KF
according to IEC 81346-2according to IEC 81346-2:2019	KF KFE
according to IEC 81346-2:2019	
according to IEC 81346-2:2019 standards, specifications, approvals / CE	KFE
according to IEC 81346-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking	KFE
according to IEC 81346-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environments	KFE
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 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
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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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