SIEMENS

Data sheet

6GK5524-8GS00-3AR2

SCALANCE XR524-8C; managed IE switch; layer 3 with Key-Plug available; Power supply 230 V AC; 24x 10/100/1000 Mbit/s RJ45; 8x 100/1000 Mbit/s SFP; contains 8 combo ports; in total 24 ports can be used; error signaling contact; select/set pushbutton; PROFINET IO device; redundancy functions; Office features (RSTP, VLAN, IGMP, ...); C-PLUG in scope of supply.



product type designation	SCALANCE XR524-8C
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for mod	dular devices
number of electrical ports / maximum	24
number of optical ports / maximum	8
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	24; RJ45
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	0
number of electrical connections	
• for SFP	8
number of combo ports / with RJ45 interface for optical plug-in transceiver	8
interfaces / for communication / plug-in	
number of electrical connections	
• for SFP	8
interfaces / other	
number of electrical connections	
for operator console	1
 for management purposes 	1
for signaling contact	1
for power supply	1
type of electrical connection	
for operator console	RJ11
for management purposes	RJ45
for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG/KEY-PLUG	Yes
product feature / hot-swappable interface modules	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	
supply voltage / 1 / rated value	230 V
power loss [W] / 1 / rated value	24 W
supply voltage / 1 / rated value	90 264 V
consumed current / 1 / maximum	0.6 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
 fuse protection type / 1 / at input for supply voltage 	3.15 A / 250 V
ambient conditions	
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch cabinet	1
width	449 mm
height	44 mm
depth	305 mm
net weight	4.2 kg
fastening method	·
19-inch installation	Yes
35 mm top hat DIN rail mounting	No
wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
type of cable outlet	Cable outlet at front
product features, product functions, product components / gen	eral
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function	
product function • CLI	Yes
• CLI	Yes Yes
CLI web-based management	Yes
CLIweb-based managementMIB support	Yes Yes
 CLI web-based management MIB support TRAPs via email 	Yes Yes Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 	Yes Yes Yes Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON 	Yes Yes Yes Yes Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring 	Yes Yes Yes Yes Yes Yes Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring 	Yes Yes Yes Yes Yes Yes Yes Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS 	Yes
 CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis 	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring COS PROFINET IO diagnosis PROFINET conformity class	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring COS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring COS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring COS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP GMRP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring COS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP GMRP OCP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP GMRP DCP LLDP	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP GMRP DCP LLDP SNMP v1	Yes
CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet HTTP HTTPS TFTP BOOTP GMRP DCP LLDP	Yes

 IGMP (snooping/querier) 	Yes
identification & maintenance function	
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
product functions / VLAN	
product function	
VLAN - port based	Yes
 VLAN - protocol-based 	Yes
VLAN - IP-based	Yes
VLAN dynamic	Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
 DHCP Option 67 	Yes
product functions / routing	
service / routing / note	IP routing in combination with KEY-PLUG XR-500
product function	
• static IP routing	Yes
 static IP routing IPv6 	Yes
 dynamic IP routing 	Yes
dynamic IP routing IPv6	Yes
protocol / is supported	
• RIPv2	Yes
RIPnG for IPv6	Yes
OSPFv2	Yes
OSPFv3 for IPv6	Yes
• VRRP	Yes
VRRP for IPv6	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	Yes
redundancy	,
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
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	Yes
redundancy procedure RSTP+	Yes
 redundancy procedure MSTP 	Yes
passive listening	Yes
protocol / is supported	
• LACP	Yes
product functions / security	165

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
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
standards, specifications, approvals	165
standard	
	LII 60050 1: CSA C22 2 No. 212 M1007
for safety / from CSA and UL for amitted interference.	UL 60950-1; CSA C22.2 No. 213-M1987
for emitted interference for interference interpretation	EN 61000-6-4 (Class A)
for interference immunity	EN 61000-6-2
reference code	VE.
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
C-Tick	Yes
 KC approval 	Yes
 E1 approval 	No
 E1 approval 	No
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to web page: selection aid TIA Selection Tool to website: Industrial communication	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industrial communicationto website: Industry Mall	http://www.siemens.com/simatic-net https://mall.industry.siemens.com
 to website: Industrial communication to website: Industry Mall to website: Information and Download Center 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
 to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
 to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx-Download-Manager 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
 to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx-Download-Manager to website: Industry Online Support security information	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
 to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx-Download-Manager to website: Industry Online Support security information	http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com 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

