6GK5204-0BS00-3LA3

Data sheet



SCALANCE X204RNA EEC; redundant network access 2x 100 Mbit/s RJ45 ports; 2x 100 Mbit/s combo ports; LED diagnostics; error signaling contact with set pushbutton; simple power supply; network management; including electronic manual on CD-ROM, C-PLUG optional for PRP network

product type designation	SCALANCE X204RNA EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	2
number of combo ports / with RJ45 interface for optical plug-in transceiver	2
interfaces / other	
number of electrical connections	
 for signaling contact 	1
for power supply	1
type of electrical connection	
 for signaling contact 	3-pole terminal block
for power supply	3-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
at AC / rated value	230 V
at DC / rated value	24 V
operational current / of the signaling contacts	
at AC / maximum	0.1 A
at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	6 W
supply voltage / 1 / rated value	85 276 V
consumed current / 1 / maximum	0.25 A
 type of electrical connection / 1 / for power supply 	3-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
fuse protection type / 1 / at input for supply voltage	1.25 A
type of voltage / 2 / of the supply voltage	
supply voltage / 2 / rated value	85 276 V
ambient conditions	
ambient temperature	

during storage	during operation	-40 +70 °C
• during transport		
relative hundrilly ** at 25°C / without condensation / during operation / ** at 25°C / without condensation / during operation / protection class IP design, dimensions and weights design, dimensions and weights design, dimensions and weights design compact with		
relative humidity * at 25 °C 7 without condensation / during operation / maximum protection class IP		
### 125 °C / without condensation / during operation / maximum protection class IP IP20 I	• note	
maximum protection class IP	relative humidity	
grotection class IP	 at 25 °C / without condensation / during operation / 	95 %
Design		
design	·	IP20
Meight	design, dimensions and weights	
March Marc	design	compact
depth	width	70 mm
net weight product feature / conformal coating product feature / sonformal coating size miniments size miniment	height	147 mm
product feature / conformal coating Yes fastering method • 35 mm top hat DIN rail mounting No • 37 mounting No • 57-1500 rail mounting No • 7-1500 rail mounting No • CLI Yes • 8-15-1500 rail mounting Yes • 8-15-1500 rail mounting No • 15-1500 rail mounting Yes • 15-1500 rail mounting No • 15-1500 rail mounting	depth	123 mm
fastening method • 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • S7-300 rail mounting product functions / management, configuration, engineering product functions / management • CLI • CLI • CLI • Web-based management • Wes • Will support • Wes • Will support • TRAP's via email • configuration with STEP 7 • port mirroring • multiport mirroring • with IRT / PROFINET IO switch • PROFINET IO diagnosis product function / switch-managed protocol / is supported • Telere • Telere • Telere • Telere • No • PROFINET IO diagnosis No product function / switch-managed No protocol / is supported • Telere • Telere • Telere • Telere • No • Telere • No • No • Telere • No • Telere • No • No • Telere • No • No • Telere • No • Telere • No • No • No • Telere • No • No • No • Telere • No • No • No • No • Telere • No • N	net weight	0.78 kg
• 35 mm top hat DIN rail mounting No • wall mounting No • S7-300 rail mounting No • S7-1500 rail mounting No • S7-1500 rail mounting No • S7-1500 rail mounting No • CLI Yes • web-based management, configuration, engineering product function • CLI Yes • web-based management Yes • MiB support Yes • TRAPs via email Yes • configuration with STEP 7 No • port mirroring No • multiport mirroring No • multiport mirroring No • PROFINET IO diagnosis No product function / switch-managed protocol / is supported • Teinet No • HTTP Yes • HTTP Yes • HTTP • BOOTP No • GMRP No • SMMP Y1 Yes • SMMP Y2 Yes • SMMP Y1 Yes • SMMP Y2 Yes • SMMP Y2 Yes • SMMP Y3 Yes • SMMP Y4 Yes • SMMP Y5 Yes • SMMP Y6 • SMMP Y6 • SMMP Y7 Yes • SMMP Y8 Yes • SMMP Y9 YP Y9 YP Y9	product feature / conformal coating	Yes
wall mounting	fastening method	
	 35 mm top hat DIN rail mounting 	Yes
	wall mounting	No
• \$7-1500 rail mounting product functions / management, configuration, engineering rorduct function • CLI • web-based management • MB support • TRAPs via email • configuration with STEP 7 • von mirroring • multiport mirroring • multiport mirroring • multiport mirroring • PROFINET IO diagnosis product function / switch-managed protoct / is supported • Telnet • TEIP • TITP • TITP • TITP • HITTPS • TITP • BOOTP • GMRP • BOOTP • GMRP • COMP • SMMP V1 • SMMP V2 • SMMP V2 • SMMP V3 • IGMP (snooping/querier) • Identification & maintenance function • Identification & maintenance	_	No
product function / management, configuration, engineering product function CLI veb-based management Yes MIB support TRAPs via email configuration with STEP 7 port mirroring multiport mirroring multiport mirroring PROFINET IO diagnosis product function / switch-managed protocol / is supported TEIP HTTP Yes TFIP HTTP Yes TFIP No GMRP DCP GMRP DCP SMMP v1 SNMP v1 SNMP v2 SNMP v1 SNMP v2 SNMP v2 SNMP v3 Identification & maintenance function Identification & function		
product function CLI CLI Yes web-based management Yes MIB support TRAPs via email Yes configuration with STEP 7 port mirroring multiport mirrorin		-
CLI web-based management Yes wBl support Yes TRAPs via email configuration with STEP 7 No port mirroring nultiport mirroring with IRT / PROFINET IO switch PROFINET IO disgnosis PROFINET IO disgnosis No product function / switch-managed No HTTP Yes TFIP No HTTP No HTTP No BOOTP GMRP No DCP Ves LLDP SNMP V1 SNMP V2 SNMP V3 SNMP V3 SNMP V3 SNMP V3 SNMP V3 SMMP V3 SMMP v4 SNMP v3 SMMP v4 SNMP v4 SNMP v3 SMMP v4 SNMP v4 SMMP v4 SNMP v4 SNMP v4 SNMP v8 SMMP v8 SMMP v8 SMMP v9 S		
web-based management MIB support TRAPs via email configuration with STEP 7 No port mirroring multiport mirroring multiport mirroring with IRT / PROFINET IO switch PROFINET IO diagnosis No product function / switch-managed Telnet No Telnet No TETP No TETP No SMRP SMRP DCP SNMP v1 SNMP v2 SIMP v3 IGMP (snooping/querier) identification & maintenance function	•	Yes
• TRAPs via email • configuration with STEP 7 • port mirroring • multiport mirroring • with IRT / PROFINET IO switch • with IRT / PROFINET IO switch • with IRT / PROFINET IO diagnosis • PROFINET IO diagnosis • No product function / switch-managed protocol / is supported • Telnet • HTTP • Yes • HTTP • Yes • TFTP • No • FTP • No • FTP • No • BOOTP • BOOTP • No • GMRP • DCP • Yes • LLDP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • Ram - Ising resturations / Yes • statistics Packet Size • statistics Packet Size • error statistics • reduct functions • ring redundancy product functions • ring redundancy product functions • ring redundancy Product function • ring redundancy No	-	
configuration with STEP 7 port mirroring multiport mirroring with IRT / PROFINET IO switch PROFINET IO diagnosis No product function / switch-managed Protocol / is supported Telent HTTP Yes HTTP Yes HTTPS Yes HTTP No FTP No GMRP BOOTP BOOTP SNMP V1 SNMP V1 SNMP V2 SNMP V3 SNMP V3 SIMP V3 SIMP V3 SIMP V3 SIMP V4 SIMP - Is A SWIND SIMP SIMP SIMP SIMP SIMP SIMP SIMP SIMP		
port mirroring multiport mirroring with IRT / PROFINET IO switch PROFINET IO diagnosis No product function / switch-managed No protocol / is supported Telefet No HITTP Yes HITTPS Yes TETP No FETP No BOOTP SOMP GMRP No DCP LLLDP SNMP V1 SNMP V2 SNMP V2 SNMP V2 SNMP V3 IGMP (snooping/querier) No identification & maintenance function Idam of the companies of the		
 multiport mirroring with IRT / PROFINET IO switch PROFINET IO diagnosis product function / switch-managed No protocol / is supported Telnet No HTTP Yes HTTPS Yes TETP No BOOTP BOOTP GMRP DCP LLDP SNMP V2 SNMP V3 SNMP V3 Yes IGMP (snooping/querier) Identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information Port diagnostics product functions / diagnostics e riror statistics e reror statistics res product functions / redundancy product function ing redundancy No 		
with IRT / PROFINET IO switch		
● PROFINET IO diagnosis No protocol / is supported No ● Telnet No ● HTTP Yes ● HTTPS Yes ● TFTP No ● BOOTP No ● BOTP No ● BWP No ● DCP Yes ● LLDP No ● SNMP v1 Yes ● SNMP v2 Yes ● I GMP (snooping/querier) No identification & maintenance function No ● I &MO - device-specific information Yes ● I &MO - device-specific information Yes ● I &MO - diagnostics Yes Product functions / diagnostics Yes ● statistics Packet Size Yes ● statistics packet type Yes ● error statistics Yes ● ror of statistics Yes		
product function / switch-managed protocol / is supported • Teinet • Teinet • HTTP • HTTPS • HTTPS • FTP • No • BOOTP • BOOTP • OCP • LLDP • SMMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) identification & maintenance function • (&MO - device-specific information • (&MO -		
protocol / is supported Telnet Telne		
• Telnet • HTTP • HTTPS • HTTPS • TFTP • No • FTP • BOOTP • BOOTP • BOOTP • No • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&M1 - higher level designation/location designation • port diagnostics product functions • statistics Packet Size • statistics Packet Size • reror statistics • red versultable product functions / ves • reror statistics • res product functions / ves • reror statistics • res product functions / ves • reror statistics • red ves product functions / ves • reror statistics • red ves product functions / ves • reror statistics • red ves product functions / ves product functions / redundancy		NO
 HTTP HTTPS Yes TFTP No BOOTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation Product functions / diagnostics product function o port diagnostics yes statistics Packet Size statistics packet type e rorr statistics Yes Product functions / redundancy product function product functions / redundancy 		Al.
 HTTPS TFTP No FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M1 - higher level designation/location designation Product function port diagnostics product function o port diagnostics yes statistics packet Size o statistics packet type o error statistics yes product functions / redundancy product function product function port diagnostics No 		
TFTP FTP No FTP No BOOTP No GMRP No DCP LLDP Yes LLDP No SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) No identification & maintenance function I&MO - device-specific information I&MO - device-specific information SMM - higher level designation/location designation Product functions / diagnostics product function operations / yes statistics Packet Size statistics Packet type error statistics product functions / redundancy Product function operations / redundancy Product function operations / redundancy No		
FTP BOOTP No BOOTP No GMRP No DCP Yes LLDP No SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) No identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function o port diagnostics product function o e riagnetics o statistics packet type o error statistics o redundancy product functions / redundancy product function o ring redundancy No		
BOOTP GMRP No GMRP No DCP Yes LLDP No SNMP v1 Yes SNMP v2 Yes SNMP v3 Identification & maintenance function I &M0 - device-specific information I &M1 - higher level designation/location designation Product functions / diagnostics product function port diagnostics statistics Packet Size statistics Packet Size error statistics Yes Product functions / redundancy Product function No		
GMRP DCP Yes LLDP No SNMP v1 Yes SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification & function / Yes Identification & maintenance function Identification & maintenance function Identification & full price information Identification / Yes Ident		No
DCP LLDP No SNMP v1 Yes SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics yes statistics Packet Size statistics packet type error statistics product functions / redundancy product functions / redundancy product functions / redundancy product function ing redundancy No		
LLDP SNMP v1 SNMP v2 Yes SNMP v3 IGMP (snooping/querier) No identification & maintenance function Yes product functions / diagnostics product functions / diagnostics Yes Identification & Ye		No
SNMP v1 SNMP v2 SNMP v3 SNMP v3 SNMP (snooping/querier) No identification & maintenance function Identification & yes Identification Yes product functions / diagnostics product functions / diagnostics Yes Identification Yes Yes Yes Identification Yes Yes Yes Identification Yes Yes Identification Yes Yes Product functions / redundancy Product function Identification Yes No No No No No No No No No N		Yes
SNMP v2 SNMP v3 IGMP (snooping/querier) No identification & maintenance function Identification & Yes Product functions / diagnostics Product functions / diagnostics Product function Identification & Yes Yes Identification & Yes No No No No No No No No No N		No
SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics statistics Packet Size statistics packet type error statistics error statistics product functions / redundancy product function No		Yes
IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation Product functions / diagnostics product function port diagnostics statistics Packet Size statistics packet type error statistics product functions / redundancy Product functions / redundancy Product functions / redundancy No	• SNMP v2	Yes
identification & maintenance function • 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 product functions / redundancy product function • ring redundancy No	• SNMP v3	Yes
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 product functions / redundancy product function ining redundancy No	• IGMP (snooping/querier)	No
I&M1 – higher level designation/location designation product functions / diagnostics product function	identification & maintenance function	
I&M1 – higher level designation/location designation product functions / diagnostics product function	• I&M0 - device-specific information	Yes
product functions / diagnostics product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics product functions / redundancy product function • ring redundancy No	•	Yes
product function		
 port diagnostics statistics Packet Size statistics packet type error statistics yes product functions / redundancy product function ring redundancy No 		
statistics Packet Size statistics packet type error statistics product functions / redundancy product function ring redundancy No		Yes
statistics packet type error statistics product functions / redundancy product function ring redundancy No		
error statistics yes product functions / redundancy product function ring redundancy No		
product functions / redundancy product function • ring redundancy No		
product function ● ring redundancy No		1 CS
• ring redundancy No	-	
	·	
High Speed Redundancy Protocol (HRP) No		
	High Speed Redundancy Protocol (HRP)	No .

 high speed redundancy protocol (HRP) with 	No
redundancy manager	
high speed redundancy protocol (HRP) with standby redundancy	No
protocol / is supported / Media Redundancy Protocol (MRP)	No
product function	
 media redundancy protocol (MRP) with redundancy manager 	No
 High-availability Seamless Redundancy (HSR) 	No
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	Yes
 High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling 	No
passive listening	No
product functions / security	
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	No
protocol / is supported	
• NTP	No
• SNTP	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 508, CSA C22.2 No. 142-M1987
 for emitted interference 	EN 61000-6-4:2001 (Class A)
for interference immunity	EN 61000-6-4:2001
MTBF	67.64 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
standard	
• for EMC	IEC 61850, IEEE 1613
standards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07
	ATEX 0145 X
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-4:2001
• C-Tick	Yes
KC approval	Yes
railway application in accordance with EN 50155	Yes
railway application in accordance with EN 50121-4	Yes
• railway application in accordance with EN 50124-1	No
• fire protection in accordance with EN 45545-2	Yes
• IEC 61850-3	Yes
● IEEE 1613	Yes
standards, specifications, approvals / marine classificatio	n
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) Dalaki Paisata Statlana (NR)	Yes
 Polski Rejestr Statkow (PRS) 	Yes

 Royal Institution of Naval Architects (RINA) 	Yes
accessories	
product extension / optional / C-PLUG	Yes
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)

last modified: