SIEMENS

Data sheet

6GK5204-0BS00-3PA3



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 and HSR networks;.

product type designation	SCALANCE X204RNA EEC	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	4	
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		
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 operation 	-40 +70 °C	

- Uning Sociage - Socia	a during storage	-40 +70 °C
roto rotoo rotoo	during storage	
Invasion Invasion evel 12 5° C/ VetKouk concensation / during operation / maximum IP20 operation dass IP IP20 design, dimensions and weights IP20 design dimensions and weights IP20 operations and weights IP20 operations and weights IP20 approximation and weights IP20 approximating approximation andimati		
• 12 5 °C / veltout condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights ommach design, dimensions and weights 0 weight 00 mmach design, dimensions and weight 147 mm design, dimensions and weight 128 mm effett 128 mm effett 0.78 kg product flasture / conformal coaling Yes statening method • valit mounting No • ST-500 rall mounting No • Coll anotating Yes • ST-500 rall mounting No • Coll functions / management Yes • Coll functions / management Yes • Coll functions / management Yes • ranke yis dimensiong No • protect / is supported Yes • ranke yis dimensiong No • protect / is supported No </td <td>• Hole</td> <td></td>	• Hole	
maximum	relative humidity	
protection class IP IP20 design. dimensions and weights compact wordn 70 mm height 147 mm design. 148 mounting vist. No ording mation during No vist. Intella support Yes vist. Intella support Yes vist. Intella support Yes ording mation with STEP 7 No No vording mation with STEP 7 No No protect function with No Protectintroning wording mation with	• at 25 °C / without condensation / during operation /	95 %
gleggn		
design compact width 70 mm height 147 mm degm 137 mm net weight 0.78 kg product feature' contramic locating Yes fastering method * • s37 mm top hal DN rail mounting No • wall mounting No • s75.300 rail mounting No • s75.300 rail mounting No • s75.300 rail mounting No • coll Yes • coll in masagement Yes • coll in masagement Yes • configuration with STEP 7 No • product function / weich-maraged No • configuration with STEP 7 No • forther No • product function / weich-maraged No • forther No • product function / weich-maraged No		IP20
wsin 70 mm height 147 mm depth 123 mm net weight 0.78 kg product fautier Contormal coating Yes fastening method Yes • 35 mm top hal DN rail mounting No • 57.500 rail mounting No • 600 rail mounting Yes • 600 rail mounting Yes • 600 rail mounting Yes • 600 rail mounting No • 600 rail mounting Yes • 600 rail mountin	design, dimensions and weights	
height 147 mm degin 123 mm net weight 0.78 kg product feature' conformal coating Yes fastering method		
depth 123 mm net weight 0.76 kg product frature / contormal coating Yes fastering method		
networks 0.78 kg product feature / conformal coating Yes fastering method Yes • 35 mm top hat DIN rail mounting Yes • x87 mounting No • S7-300 rail mounting No product functions mounting product functions No • CLI Yes • MB support Yes • MB support Yes • MB support Yes • oring uration with STEP 7 No • protect in supported No • multiport mirroring No • with IFT PROFINET IO diagnosis No • PROFINET IO diagnosis No • Protoci if us upported No • TERP No • Entert No • GMRP No • OCP Yes		
product feature / conformal coaling Yes fastering method	· · · · · · · · · · · · · · · · · · ·	
festening method Yes • 35 mm top hat DN rall mounting No • 57-300 rall mounting No • 57-500 rall mounting No • 57-500 rall mounting No product functions / management, configuration, engineering Image and the set of t		-
• 35 rm top hat Dir vali mountingYes• wal mountingNo• S7-1500 ral mountingNo• S7-1500 ral mountingNo• CulYes• CulYes• Web-based managementYes• MB supportYes• RAPs via emailYes• configuration with STEP 7No• port mirroringNo• port mirroringNo• multiport mirroringNo• multiport mirroringNo• multiport mirroringNo• multiport mirroringNo• port mirroringNo• port mirroringNo• multiport ID diagnosisNo• product function / switch-managedNo• product function / switch-managedNo• TorintNo• HTTP 5Yes• TETPNo• FTP 7No• ENOPTPNo• BOOTPYes• BOOTPNo• SIMP V1Yes• SIMP V2Yes• SIMP V3Yes• SIMP V3Yes• SIMP V3Yes• ICIAP (encopring/queiler)No• Identification a maintenance functionYes• additionalization designationYes• statistics Packet SizeYes• statistics Packet SizeYes• additionalization forceYes• additionalization forceYes• additionalization forceYes• additionalization forceYes• additionalization force		Yes
• wall mounting No • S7-300 rall mounting No • S7-100 rall mounting No product functions / management, configuration, engineering • CLI Yes • configuration with STEP 7 No • port mirroring No • with IRT / PROFINET IO switch No • with IRT / PROFINET IO diagnosis No protocol / is supported - • Telnet No • HTTP Yes • HTTP NS Yes • HTTP NS Yes • BOOTP No • BOOTP No • SMMP V1 Yes • SMMP V3 Yes • ICMP (snopping/qurier) No • Identification & maintenance function Yes • IAMP (sloppolis) Yes • IGMP (snopping/qurier) No<		
• S7-300 rail mounting No • S7-1500 rail mounting No product function • CLI Yes • web-based management. Yes • WB support Yes • TRAPs via email Yes • configuration with STEP 7 No • port mimoring No • multiport mimoring No • with IRT / PROFINET IO switch No • with IRT / PROFINET IO switch No • protocol / is supported No • TIPP No • PROFINET IO diagnosis No • FITP No • BOOTP Yes • HITPS Yes • LIDP No • SNIMP V1 Yes • SNIMP V1 Yes • SNIMP V3 Yes • Idamodic Indocumation Yes • Idamodic Indocumation Yes • Idamodic Indocumation Yes • SNIMP V1 Yes • ISMIM + higher level diagnostics Yes • Idamodexic Packet Isize Yes		
S7:1500 rail mounting No product functions / management, configuration, engineering Ves • CLI Yes • web-based management Yes • Will support Yes • TRAPs via email Yes • configuration with STEP 7 No • port mirroring No • multiport mirroring No • multiport mirroring No • multiport mirroring No • product function / switch-managed No product function / switch-managed No protocol / is supported - • TEP No • HTTPS Yes • HTTPS Yes • HTTPS Yes • EFIP No • BOOTP No • GURP No • DCP Yes • LLDP No • SNMP v1 Yes • ISMM (copporting/uperier) No • Identification & maintenance function Yes • ISMM (copporting/uperier) No • Identification & maintenance function Yes • ISMM (copporting/uperier) No • Identification & maintenance function Yes • ISMM (copporting/uperier) No <t< td=""><td>-</td><td></td></t<>	-	
product functions	-	
product function Yes • CLI Yes • web-based management Yes • MB support Yes • TRAPs via email Yes • configuration with STEP 7 No • port mirroring No • multiport mirroring No • multiport mirroring No • multiport mirroring No • multiport function / switch-managed No protocol / is supported No • Talnet No • HTTP Yes • TETP No • TETP No • BOOTP No • BOOTP No • SIMIP v1 Yes • SIMIP v2 Yes • SIMIP v3 Yes • IGMP (encoping/querier) No identification & maintenance function Yes • IGMP (encoping/querier) No identification & maintenance function Yes • IGMP (encoping/querier) No viort function Yes product functions / diagnostics Yes product functions / diagnostics Yes product functions / diagnostics Yes product functions / redundancy Yes product functions / redu	-	No
• CLIYes• web-based managementYes• Mills supportYes• TRAPs via emailYes• configuration with STEP 7No• port minoringNo• multiport minoringNo• multiport minoringNo• multiport minoringNo• PROFINET IO switchNo• PROFINET IO diagnosisNoprotect function / switch-managedNo• PROFINET IO supported		
• web-based managementYes• MIB supportYes• RR-Pk Via emailYes• configuration with STEP 7No• port mirroringNo• unitigbort mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisNoproduct function / switch-managedNoproduct function / switch-managedNoprotocol / is supportedNo• TelnetNo• TITPYes• HITPSYes• TFTPNo• DCPYes• EDOTPNo• DCPYes• LLDPNo• SIMMP v1Yes• SIMMP v2Yes• SIMMP v3Yes• Identification & maintenance functionYes• Identification & formationYes• identification & formationYes• product function / diagnosticsYes• product function / diagnosticsYes• idiagnosticsYes• idiagnosticsYes• idiagnosticsYes• idiagnosticsYes• idiagnosticsYes• idiagnosticsYes• idiagnosticsYes• ing redundancyYes• ror statistics Packet SizeYes• ing redundancy Protocol (HRP)No• high Speed Redundancy protocol (HRP)No<		
 MIB support Yes TRAPs via email Yes ondiguration with STEP 7 No port mirroring No multiport mirroring No multiport mirroring No PROFINET IO diagnostic PROFINET IO diagnostic No protocol // is supported Telent No HTTPS Yes HTTPS Yes FTP No BOOTP No BOOTP No DCP Yes LDP No DCP Yes SIMMP v1 Yes SIMMP v2 Yes IGMP (snooping/querier) No IGMP (snooping/querier) No Identification & maintenance function Identification & maintenance function Yes ISIMI = Vise Second S		
• TRAPs via email Yes • configuration with STEP 7 No • port mirroring No • multiport mirroring No • multiport mirroring No • multiport mirroring No • PROFINET IO switch No • PROFINET IO diagnosis No product function / switch-managed No • relatet No • HTTP Yes • HTTP Yes • HTTP Yes • HTTP Yes • FIFP No • ECP No • SOOTP No • SOMP V1 Yes • SIMMP V2 Yes • LLDP No • SIMMP V3 Yes • Identifications function Yes • Idialistics packet Si	 web-based management 	Yes
• configuration with STEP 7 No • port mirroring No • multiport mirroring No • with IRT / PROFINET IO switch No • PROFINET IO diagnosis No product function / switch-managed No protocol / is supported No • Telnet No • Telnet No • HTTP Yes • TFTP No • EFP No • BOOTP No • BOOTP No • SOMRP No • SOMP v1 Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • SIMM v4 Yes • SIMMP v3 Yes • SIMMP v3 Yes • SIMMP v4 Yes • SIMI v3 Yes • SIMI v4 Yes • SIMI v3 Yes • SIMI v3 Yes • SIMI v3 Yes • SIMI v3 Yes • SIMI v4 Yes • SIMI v5 Yes • SIMI v6	MIB support	Yes
• port mirroring No • multiport mirroring No • with IRT / PROFINET IO switch No • Product function / switch-managed No product function / switch-managed No • Flenkt No • Irlenkt No • HITTP Yes • HTTPS Yes • HTTPS Yes • FTP No • BOOTP No • DCP Yes • LIDP No • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • IGMP (snooping/querier) No identification & maintenance function Yes • ISMV v3 Yes • ISMV - Information Yes • ISMV - Information Yes • IGMP (snooping/querier) No identification A maintenance function Yes • ISMV - Information Yes • ISMV - Information Yes • ISMS - Packet Size Yes • Istalistics packet type Yes • Istalistics packet type Yes • Indignostics Yes • Indignostics Yes • Istalistics packet type Yes • Ista	• TRAPs via email	Yes
• multiport mirroring No • with IRT / PROFINET IO switch No • PROFINET IO diagnosis No protact function / switch-managed No • refinet No • refinet No • HTTP Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • HTTP No • EDOTP No • BOOTP No • BOOTP No • CMRP No • SNMP V1 Yes • SNMP v2 Yes • SNMP v3 Yes • ILDP No • Identification & maintenance function Yes • I&MO - device-specific information Yes • Identification & diagnostics Yes product function Yes • statistics Packet Size Yes • statistics packet type Yes • statistics packet type Yes • ring redundancy Yes • ring redundancy No	 configuration with STEP 7 	No
• with IRT / PROFINET IO switch No PROFINET IO diagnosis No product function / switch-managed No protocol/is supported - • Telnet No • HTTP Yes • HTTPS Yes • ITTP No • FTP No • SOOTP No • BOOTP No • COP Yes • LLOP No • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) No identification & maintenance function Yes • I&MO - device-specific information Yes • I&MO - device-specific information Yes • I&MO - functions / diagnostics Yes • statistics packet Size Yes • statistics packet Size Yes • error statistics Yes • error statistics Yes • ing redundancy No • high speed redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) No	 port mirroring 	No
• PROFINET I/O diagnosis No protocul / is suported No • Teinet No • Teinet No • HTTP Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • HTTP No • BOOTP No • BOOTP No • BOOTP No • CMRP No • SMMP V1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) No identification & maintenance function Yes • ISM0 - device-specific information Yes • or of diagnostics Yes • statistics Packet Size Yes	 multiport mirroring 	No
product function / switch-managed No protocol / is supported No • Telnet No • HTTP Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • FTP No • BOOTP No • GMRP No • COP Yes • LLDP No • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) No Identification & maintenance function Yes • I&M0 - device-specific information Yes product functions Yes product function Yes • atatistics Packet Size Yes • statistics Packet Size Yes • statistics Packet Size Yes • atatistics Packet Size Yes • statistics Packet Size Yes • atatistics Packet Size Yes • are statistics Yes • are statistics	 with IRT / PROFINET IO switch 	No
protocol / is supported No • Teinet No • HTTP Yes • HTTPS Yes • TFTP No • FTP No • BOOTP No • GMRP No • DCP Yes • LLDP No • SNMP v1 Yes • SNMP v2 Yes • ICMP (snooping/querier) No Identification & maintenance function Yes • I&MO - device-specific information Yes • IBM1 - higher level designation/location designation Yes product functions / diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes • fingr edundancy No • high speed redundancy Protocol (HRP) No • high speed redundancy Protocol (HRP) No	PROFINET IO diagnosis	No
• Telnet No • HTTP Yes • HTTPS Yes • HTTPS Yes • TFTP No • EOOTP No • BOOTP No • BOOTP No • DCP Yes • LLDP No • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) No Identification & maintenance function Yes • ISM0 - device-specific information Yes • IdM1 - higher level designation/location designation Yes • product functions / diagnostics Yes • statistics Packet Size Yes • error statistics	product function / switch-managed	No
• HTTPYes• HTTPSYes• TFTPNo• FTPNo• BOOTPNo• GMRPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• or of talignosticsYes• or of talisticsYes• or of talistics <t< td=""><td>protocol / is supported</td><td></td></t<>	protocol / is supported	
• HTTPSYes• TFTPNo• FTPNo• BOOTPNo• BOOTPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• Igm statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• error statisticsYes• error statisticsYes• ring redundancyNo• High Speed Redundancy Protocol (HRP) with redundancyNo• high speed redundancy protocol (HRP) with redundancyNo	• Telnet	No
• TFTPNo• FTPNo• BOOTPNo• BOOTPNo• GMRPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• ISM0 - device-specific informationYes• ISM1 - higher level designation/location designationYes• pord diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYes• error statisticsYes• porduct functionYes• error statisticsYes• high Speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo• high speed redundancy protocol (HRP)No• high speed redundancy protocol (HRP)No	• HTTP	Yes
• FTPNo• BOOTPNo• GMRPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)No• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• Igm (functionYes• or diagnosticsYes• error statisticsYes• error statisticsYes• or statisticsYes• or of diagnosticsYes• error statisticsYes• or of diagnosticsYes• ing redundancyNo• High Speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo	• HTTPS	Yes
• BOOTPNo• GMRPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Noidentification & maintenance functionYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYes• statistics Packet SizeYes• statistics packet SizeYes• statistics packet SizeYes• error statisticsYes• error statisticsYes• error statisticsYes• high speed redundancyNo• high speed redundancy Protocol (HRP)No• high speed redundancy protocol (HRP)No• high speed redundancy protocol (HRP)No• high speed redundancy protocol (HRP)No	• TFTP	No
• GMRPNo• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snoping/querier)Noidentification & maintenance functionYes• I&MO - device-specific informationYes• I&MO - device-specific informationYes• I&MO - device-specific informationYes• Istitistics Packet SizeYes• product functionYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYes• error statisticsYes• product function / redundancyYes• fing redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo	• FTP	No
• DCPYes• LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)No• IGMP (snooping/querier)No• IGMP (snooping/querier)Yes• IgmosticsYes• port diagnosticsYes• port diagnosticsYes• statistics Packet SizeYes• error statisticsYes• ing redundancyNo• High Speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo	• BOOTP	No
LLDPNo• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Noidentification & maintenance function• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functionYes• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYesproduct functionYes• product functionYes• fight geed RedundancyNo• high speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo	• GMRP	No
• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Noidentification & maintenance function• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYesproduct functionYes• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYesproduct functionYes• ing redundancyNo• high Speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo	• DCP	Yes
• SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) No identification & maintenance function	• LLDP	No
• SNMP v3 Yes • IGMP (snooping/querier) No identification & maintenance function Yes • I&MO - device-specific information Yes • I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy No • ring redundancy No • high Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No	• SNMP v1	Yes
• IGMP (snooping/querier) No identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy Yes product functions / redundancy No + ing redundancy Protocol (HRP) No + high speed redundancy protocol (HRP) with redundancy No	• SNMP v2	Yes
identification & maintenance function Yes i I&M0 - device-specific information Yes i I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes product function • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy Yes product functions / redundancy No • high Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No	• SNMP v3	Yes
identification & maintenance function Yes i I&M0 - device-specific information Yes i I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes product function • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy Yes product functions / redundancy No • high Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No	IGMP (snooping/querier)	No
• 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 function / redundancy Yes • error statistics Yes product functions / redundancy No • ring redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No		
product functions / diagnostics product function • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes • error statistics Yes product functions / redundancy Yes product function Image: statistic statistics product function No • ring redundancy No • High Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No	 I&M0 - device-specific information 	Yes
product functions / diagnostics product function • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes • error statistics Yes product functions / redundancy Yes product function Image: statistic statistics product function No • ring redundancy No • High Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No	 I&M1 - higher level designation/location designation 	Yes
product function Yes • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy Yes product function Image: Comparison of the system of the		
• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYesproduct functions / redundancyYesproduct functionImage: Statistic Statistics• ring redundancyNo• High Speed Redundancy Protocol (HRP)No• high speed redundancy protocol (HRP) with redundancyNo		
• statistics Packet Size Yes • statistics packet type Yes • error statistics Yes product functions / redundancy Yes product function Image: Statistic Stat		Yes
• statistics packet type Yes • error statistics Yes product functions / redundancy Yes product function No • ring redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No		
• error statistics Yes product functions / redundancy Yes product function Image: Comparison of the system of the		
product functions / redundancy No • ring redundancy No • High Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No		
product function No • ring redundancy No • High Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No		
• ring redundancy No • High Speed Redundancy Protocol (HRP) No • high speed redundancy protocol (HRP) with redundancy No		
High Speed Redundancy Protocol (HRP) No high speed redundancy protocol (HRP) with redundancy No	-	No
high speed redundancy protocol (HRP) with redundancy No		

 high speed redundancy protocol (HRP) with standby 	No
redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	No
product function	
 media redundancy protocol (MRP) with redundancy manager 	No
 High-availability Seamless Redundancy (HSR) 	Yes
Parallel Redundancy Protocol (PRP)/Redundant Network	Yes
Access (RNA)	
 High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling 	Yes
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, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0205X
 for safety / from CSA and UL 	UL 508 E85972, 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 a
reference code	
according to IEC 81346-2	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
	Yes
certificate of suitability / CE marking	
standard	
standard • for EMC	IEC 61850, IEEE 1613
standard • for EMC standards, specifications, approvals / hazardous environments	IEC 61850, IEEE 1613
standard • for EMC	
standard • for EMC standards, specifications, approvals / hazardous environments	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes Yes
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes Yes Yes
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50121-4	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes Yes Yes Yes
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50124-1	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes Yes Yes Yes No
standard • for EMC standards, specifications, approvals / hazardous environments standard / for hazardous zone standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50124-1 • fire protection in accordance with EN 45545-2	IEC 61850, IEEE 1613 EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X EN 61000-6-4:2001 Yes Yes Yes Yes No Yes
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