SIEMENS

Data sheet



SCALANCE X204IRT PRO, managed IE IRT switch with degree of protection IP65/67, 4x 10/100 Mbit/s Push-pull RJ45 ports, error signaling contact with set push-button; redundant power supply; PROFINET IO device, network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-PLUG optional.

product type designation	SCALANCE X204IRT PRO	
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 	4	
interfaces / other		
number of electrical connections		
 for signaling contact 	1	
• for power supply	1	
type of electrical connection		
 for signaling contact 	5-pin M12 socket	
 for power supply 	5-pin push-pull plug PRO socket	
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		
type of voltage / 1 / of the supply voltage	DC	
 supply voltage / 1 / rated value 	24 V	
power loss [W] / 1 / rated value	4.8 W	
supply voltage / 1 / rated value	18 32 V	
consumed current / 1 / maximum	0.2 A	
 type of electrical connection / 1 / for power supply 	5-pin Push Pull Plug PRO socket	
 product component / 1 / fusing at power supply input 	Yes	
fuse protection type / 1 / at input for supply voltage	0.6 A / 60 V	
ambient conditions		
ambient temperature		
during operation	-25 +70 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
relative humidity		
 at 25 °C / without condensation / during operation / maximum 	95 %	
protection class IP	IP65	

design, dimensions and weights	design, dimensions and weights		
design	compact		
width	90 mm		
height	125 mm		
depth	124 mm		
net weight	1 kg		
fastening method	5		
35 mm top hat DIN rail mounting	Yes		
wall mounting	Yes		
S7-300 rail mounting	Yes		
S7-1500 rail mounting S7-1500 rail mounting	No		
product features, product functions, product components / gene			
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100		
cascading in cases of star topology	any (depending only on signal propagation time)		
product functions / management, configuration, engineering			
product function	N.		
• CLI	Yes		
 web-based management 	Yes		
MIB support	Yes		
TRAPs via email	Yes		
configuration with STEP 7	Yes		
• port mirroring	No		
multiport mirroring	No		
 with IRT / PROFINET IO switch 	Yes		
PROFINET IO diagnosis	Yes		
PROFINET conformity class	С		
network load class / according to PROFINET	2		
product function / switch-managed	Yes		
protocol / is supported			
• Telnet	Yes		
• HTTP	Yes		
• HTTPS	Yes		
• TFTP	Yes		
• FTP	Yes		
• BOOTP	No		
• DCP	Yes		
• LLDP	Yes		
• SNMP v1	Yes		
• SNMP v2	Yes		
• SNMP v3	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 Size statistics packet type	Yes		
statistics packet type error statistics	Yes		
product functions / DHCP	160		
product function	Vee		
DHCP client product functions / redundancy	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 redundancy 	Yes		



protocot // supported / Media Redundancy protocot (MRP) with redundancy manager		
- Parallel Redundancy Protocol (PRP) with redundancy manager - Parallel Redundancy Protocol (PRP) Representation in the PRP-Review of Parallel Redundancy Protocol (PRP) Redundant Network - Parallel Redundancy Protocol (PRP) Redundant Network - Parallel Redundancy Protocol (PRP) Redundant Network - Sassi Security - Protocol / Is supported - SSH Yes - SSH	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
# Parallel Redundancy Protocol (PRP)/speration in the PRP-network	·	
Parallel Redundancy Protocol (PRPyRedundan Network Access (RNA) Parallel Redundancy Protocol (PRPyRedundan Network Access (RNA) Passave listening Protocol // is supported Poclust functions / security Protocol // is supported Poclust functions / security Protocol // is supported Poclust functions / security Protocol // is supported Protocol //		Yes
FRP-retwork	-	Voc
Access (RNA) - passive Islanding product functions / security product functions / since functions		res
Possible Islanding Possible Islandin	Parallel Redundancy Protocol (PRP)/Redundant Network	No
product functions / time functi		
product functions / time product functions / time product functions / time product functions / supported		Yes
*SSH Yes product functions / time product functions *SICLOCK support *NIP *SNTP *SNTP *SNTP *SANTP *SANTP *In emitted interference *In reference immunity *In reference code *En fotopo-4-2001 (class A) *In reference code *according to IEC 81346-2-2019 *Enceffications, approvals / Enceffications, approvals / Enceffications	product functions / security	
product functions / time SICLOCK support	protocol / is supported	
product function SICLOCK support No SICLOCK support No SINTP No SINTP No SINTP Standards, specifications, approvals standard • for FM • for emitted interference • for interference immunity • for interference immunity EN 61000-64-2001 (Class A) • for interference immunity EN 61000-64-2001 FFF 1000-64-2001 FFF 1000-64-20	• SSH	Yes
SICLOCK support Protocol / is supported NTP SINTP SINTP FMS911: Class 1, Division 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4, FM16US0205X standards pspecifications, approvals standard of or FM FMS911: Class 1, Division 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4, FM16US0205X FM 16000-64-2001 (Class A) of or emitted interference of or interference immunity EN 161000-64-2001 (Class A) FMS911: Class A) of remitted interference of or interference immunity EN 161000-64-2001 (Class A) FMS95 a reference code according to IEC 81346-2 KF according to IEC 81346-2 KF according to IEC 81346-2 Certificate of suitability Certificate of suitability of row CSA and UL Certificate of suitability of row CSA and UL ANSI/ISA 12 12.01 CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP, A, B, C, D / T4, CL. 1 / Zone 2 / GP, IIC, T4, E240480 Certificate of suitability of row CLUs Hazlor / as File Nr. standards, specifications, approvals / GB standard / as marking of row CLUs Hazlor / as File Nr. standards, specifications, approvals / other certificate of suitability ANSI/ISA 12 12.01 CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP, A, B, C, D / T4, CL. 1 / Zone 2 / GP, IIC, T4, E240480 Yes, CB388.1, GB388.8, Ex / AB CR / AB / A	product functions / time	
protocol // is supported • NTP • NTP • NNP • SNTP * Yes standards, specifications, approvals standard • for FM • for emitted interference • for interference immunity • for interference immunity • for interference immunity • FMSS11: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0205X * FMS 15000-64-2001 (Class A) • for interference immunity • EN 61000-64-2001 * RFE * according to IEC 81346-2 • according to IEC 81346-2-2019 * FEE * standards, specifications, approvals / 6E • according to IEC 81346-2-2019 * KFE * standards, specifications, approvals / PE * certificate of suitability / CE marking * standard / for hazardous zone • from CSA and UL • Certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone • randards, specifications, approvals	product function	
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SINTP **Standards, specifications, approvals** **Standard** **for FM** **for FM** **for emitted interference** **for finterference immunity** **for of mitted interference immunity** **for interference immunity** **MTBF** **genoring to IEC 81346-2 **according to IEC 81346-2 **according to IEC 81346-2:2019 **Standards, specifications, approvals / CE **certificate of suitability* / CE marking** **standard / for hazardous zone** **form CSA and UL** *	protocol / is supported	
standard	• NTP	No
standard • for FM • for FM • for emitted interference • for interference immunity MTBF # 81000-64-2001 (Class A) EN 81000-84-2001 (Class A) EN 81000-90-15-2005, II 3 G Ex nA II 74 KEMA 07 ATEX OTASX OTASX ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, DT4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 POR CSC / for hazardous zone according to GB standard / as marking • CCC / for hazardous zone according to GB standard / as marking • for CLULIS HazLoc / as File Nr. E240480 (NWHP, NWHP7) Standards, specifications, approvals / other Certificate of suitability • C.Tick • CR approval • CR approval • Callway application in accordance with EN 50125- No • Ralway application in accordance with EN 50124-1 No Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Polski Rejestr Statkow (PRS) • Royal institution of Naval Architects (RINA) • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to website: industrial communication	• SNTP	Yes
• for FM • for emitted interference • for interference immunity • for emitted interference • FM 5011 Class A) • for interference immunity • FM 1000-64-2001 (Class A) • FM 1000-64-2001 (Class A) • FM 1000-64-2001 (Class A) • FM 1000-64-2001 • SEN 5 a • according to IEC 81346-2 • according to IEC 81346-2 • according to IEC 81346-2 • according to IEC 81346-22019 KFE standards, specifications, approvals / Examples standards, specifications, approvals / Pazardous environments standards, specifications, approvals / hazardous environments - from CSA and UL Certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KG approval • Callosh (Approval) • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification association • American Bureau of Shipping (LRS) • French marine classification sociately (BV) • Polski Rejestr Statkow (PRS) • Royal institution of Naval Architects (RINA) • to web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page: selection aid TIA Selection Tool • Into Web page:	standards, specifications, approvals	
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For interference immunity		
MTBF reference code	for emitted interference	EN 61000-6-4:2001 (Class A)
reference code according to IEC 81346-2 according to IEC 81346-2:2019 Standards, specifications, approvals / December 2015	for interference immunity	EN 61000-6-4:2001
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CCC / for hazardous zone according to GB standard / as marking for cULus HazLoc / as File Nr. Standards, specifications, approvals / other certificate of suitability C-Tick KC approval Finalway application in accordance with EN 50155 Finalway application in accordance with EN 50124-1 No standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Firench marine classification society (BV) Firench marine classification society (BV) Firench mail (NK) Firench mail (•	Yes: GB3836.1 GB3836.8
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• to website: Information and Download Center

• to website: Selection guide for cables and connectors

• to website: Image database

• to website: CAx-Download-Manager • to website: Industry Online Support

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security information

security information

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Approvals / Certificates

General Product Approval

EMC

For use in hazardous locations

Manufacturer Declaration



Miscellaneous



ATEX-Zone 2-Declaration



IECEX

For use in hazardous locations

<u>FM</u>

CCC-Ex





Declaration of Conformity

Manufacturer Declaration



Marine / Shipping









NK / Nippon Kaiji Ky-<u>okai</u>



Marine / Shipping

other

Environment





PROFINET-Certification



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11/9/2023

