Data sheet



SCALANCE X204-2, managed IE switch, 4x 10/100 Mbit/s RJ45 ports, 2x 100 Mbit/s Multimode BFOC, LED diagnostics, error signaling contact with set 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 X204-2 | |
|---|-----------------------|--|
| Transfer rate | | |
| Transfer rate | 10 Mbit/s, 100 Mbit/s | |
| Interfaces / for communication / Integrated | | |
| Number of electrical connections | | |
| • for network components or terminal equipment | 4 | |
| Number of 10/100 Mbit/s RJ45 ports / Integrated | | |
| • with securing collar | 4 | |
| Number of 100 Mbit/s ST(BFOC) ports | | |
| • for multimode | 2 | |
| Interfaces / other | | |
| Number of electrical connections | | |
| • for signaling contact | 1 | |
| • for power supply | 1 | |
| Type of electrical connection | | |
| • for signaling contact | 2-pole terminal block | |
| • for power supply | 4-pole terminal block | |
| design of the removable storage | | |

| • C-PLUG | Yes | |
|--|---|--|
| Signal inputs/outputs | | |
| Operating voltage / of the signaling contacts | | |
| • at DC / Rated value | 24 V | |
| Operating 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 | 6.36 W | |
| Supply voltage / 1 / rated value | 18 32 V | |
| | | |
| Ambient conditions Ambient temperature | | |
| during operation | -40 +60 °C | |
| | -40 +70 °C | |
| during storage | -40 +70 °C | |
| during transport Polative humidity | -40 170 C | |
| Relative humidity • at 25 °C / without condensation / during | 95 % | |
| operation / maximum | 93 /6 | |
| Protection class IP | IP30 | |
| | | |
| Design, dimensions and weights | | |
| Design | compact | |
| Width | 60 mm | |
| Height | 125 mm | |
| Depth | 124 mm | |
| Net weight Mounting type | 0.78 kg | |
| | Yes | |
| 35 mm DIN rail mounting wall mounting | Yes | |
| wall mounting C7 200 rail requiring | Yes | |
| • S7-300 rail mounting | | |
| • S7-1500 rail mounting No | | |
| Product features, product functions, product components / general | | |
| Cascading in the case of a redundant ring / at | 100 | |
| reconfiguration time of <\~0.3\~s | (decrease the continue of the | |
| Cascading in cases of star topology | any (depending only on signal propagation time) | |
| Product functions / management, configuration, engineering Product function | | |
| | Yes | |
| • CLI | | |
| web-based management | Yes | |
| MIB support | Yes | |

| Configuration with STEP 7 Port mirroring Millsoft mirroring Millsoft mirroring No PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Protocol / is supported Telnet Yes HTTP Yes HTTP Yes HTTPS Yes FTP Yes BOOTP No DOP LLDP Yes SMMP V1 SNMP V2 SMMP V3 SNMP V3 Ves SMMP V3 Ves SMMP V3 Ves SMMP V3 Ves Ves SMMP V3 Ves SMMP N3 Ves SMMP N3 Ves SMM - higher-level designation/location designation Product function Port diagnostics Product function Product functions Product functions Product function Product functions Product functions Product functions Product functions Product functions Product functions Product function Product functions P | TRAPs via email | Yes |
|--|--|-----|
| Port mirroring multiport mir | | |
| • multiport mirroring • with IRT / PROFINET IO switch • PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Protocol / is supported • Teinet • | | |
| with IRT / PROFINET IO switch PROFINET io diagnosis PROFINET conformity class B Product function / switch-managed Protocol / supported * Telnet * Telnet * Yes * HTTP * Yes * HTTPS * Yes * TETP * Yes * TETP * Pos * DCP * SMMP / Yes * Manual / Yes | - | |
| PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Yes Protocol / is supported • Telnet • Telnet • Telnet • HTTP • HTTP • HTTP • HTTP • HTTP • HTTP • BOOTP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 Identification & maintenance function • I&M - device-specific information • I&M - higher-level designation/location designation Product functions / Diagnostics Product functions • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics Product functions / DHCP Product function • DHCP client Product functions / DHCP Product function • DHCP client Product function / Pes • Error statistics Product function / DHCP Product function / Pes • Error statistics Product function / PhCP Product | | |
| PROFINET conformity class B Product function / switch-managed Yes Protocol / is supported • Telnet Yes • HTTP Yes • HTTP Yes • HTTP Yes • FTP Yes • BOOTP No • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • SNMP v3 Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 – higher-level designation/location designation • Port diagnostics Product functions / DHCP Product function Yes • Ring redundancy • Ring redundancy • High Speed redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with No | | |
| Product function / switch-managed Protocol / is supported Telnet Telnet HTTP Yes HTTP Yes FTP HTTP Yes FTP BOOTP BOOTP BOOTP SNMP v1 SNMP v2 SNMP v2 SNMP v2 SNMP v3 FIdentification & maintenance function Is Mo device-specific information Signation Product functions / Diagnostics Product function Product function DHCP Froduct functions DHCP Product functions / DHCP Product function DHCP (int) Product functions / DHCP Product function DHCP (int) Product functions / DHCP Product function Product function DHCP client Yes Froduct function Product function DHCP Client Product function Product function DHCP client Product function DHCP client Product function Product function Product function DHCP client Product function Product function Product function Product function DHCP client Product function | | |
| Protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • FTP • FTP • BOOTP • DCP • LLDP • SNMP v1 • SNMP v2 • 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 type • Error statistics Product function / DHCP Product function • DHCP client Yes Product function • Ping redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with | | |
| Telnet HTTP HTTP HTTPS HTTPS TETP TETP FTP SES FTP BOOTP BOOTP DCP SNMP v1 SNMP v2 SNMP v3 Ves Identification & maintenance function I &M 0 - device-specific information Ves SMM - device-specific information Ves SMS Ves Identification & maintenance function Ves Stable - Ves Statistics Packet Size Ves Statistics Packet Size Statistics Packet Vipe Ves Froduct function DHCP Product function DHCP Product function Product function Ves Product function | | |
| HTTPS TFTP TFTP FTP FTP BOOTP BOOTP DCP LLDP SNMP v1 SNMP v2 SNMP v3 Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnostics Product functions Porduct functions Porduct functions Product function Product functions | | Yes |
| • HTTPS • TFTP • TFTP • FTP • BOOTP • BOOTP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnostics Product functions • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics Product functions / DHCP Product function • DHCP client Product function • DHCP client Yes Product functions / redundancy Product function • DHCP client Yes Product function / Yes • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with | • HTTP | Yes |
| TFTP FTP FTP FTP FTP FTP FTP FTP FTP FT | | Yes |
| FTTP BOOTP BOOTP BOOTP DCP Yes LLDP SIMMP v1 SIMMP v1 SIMMP v2 SIMMP v3 Ves Identification & maintenance function Is Mid - device-specific information Is Mid - device-specific information Ves Simmer va Simmer va Ves | | Yes |
| BOOTP DCP Yes LLDP Yes SNMP v1 Yes SNMP v2 SNMP v2 SNMP v3 Ves SIdentification & maintenance function I & MO - device-specific information I & MO - device-specific information Yes I & MO - device-specific information Yes I & MO - device-specific information Yes Statisticn Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Form statistics Yes Product functions / DHCP Product functions / DHCP Product function DHCP client Yes Product functions / redundancy Product functions / redundancy Product functions / redundancy Product functions / redundancy Product functions / Yes High Speed Redundancy Protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with | | Yes |
| DCP LLDP SNMP v1 SNMP v1 SNMP v2 SNMP v3 Ves Identification & maintenance function Is Mo - device-specific information Is Mo - device-specific information Ves Ves Statistics - device-specific information Ves Ves Statistics Product function Port diagnostics Statistics Packet Size Statistics Packet Size Ves Statistics packet type Fror statistics Ves Product functions / DHCP Product function DHCP Product function PhCP client Ves Product function / Pedundancy Product function / redundancy Product function Ne Ring redundancy Product function Ne Ring redundancy Product function Ne Ring redundancy Protocol (HRP) with redundancy manager Ne high speed redundancy protocol (HRP) with No | | |
| • LLLDP • SNMP v1 • SNMP v2 • SNMP v3 Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MI - higher-level designation/location designation Product functions / Diagnostics Product function • Port diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics Product functions / DHCP Product functions / DHCP Product functions / DHCP Product function • DHCP client Product functions / redundancy Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with Product functions or redundancy prot | | |
| SNMP v1 SNMP v2 SNMP v3 Yes Identification & maintenance function I&MO - device-specific information Yes I&MI - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics Packet Size Statistics packet type Froduct functions / DHCP Product functions / DHCP Product functions / DHCP Product function DHCP client Product function Fing redundancy Sing redundancy Sing redundancy Protocol (HRP) Sing speed redundancy protocol (HRP) with redundancy manager | | Yes |
| SNMP v2 SNMP v3 Identification & maintenance function I&MO - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Froduct functions Product functions / Yes Statistics packet type Froduct functions Product functions Product functions Product functions Product functions Product functions Product functions Product functions Product functions Product function Product func | | 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 type Error statistics Product functions / DHCP Product function Product function Product functions / Product function | | |
| 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 / DHCP Product functions / DHCP Product functions / DHCP Product functions / Product function • DHCP client Product functions / redundancy Product functions / redundancy Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with Possible Size of the second | | Yes |
| I&M1 – higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firor statistics Product functions / DHCP Product function DHCP Product function Statistics Product function Statistics Product functions / Product function Statistics Product functions / Fedundancy Product functions / Fedundancy Product function Statistics Product functions / Fedundancy Product functions / Fedundancy Product functions / Fedundancy Statistics Yes Product functions / Fedundancy Product functions / Fedundancy Product function Statistics Product functions / Fedundancy Product function / Fesundancy Product functions / Fes | | _ |
| I&M1 – higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firor statistics Product functions / DHCP Product functions / DHCP Product function PhCP client Product function Statistics Product functions / redundancy Product function Statistics Product functions / redundancy Product functions / redundancy Product function Statistics Product functions / redundancy Product functions / redundancy Product functions / redundancy Product function Statistics Product functions / redundancy Produc | I&M0 - device-specific information | Yes |
| Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type First statistics Product functions / DHCP Product functions / DHCP Product function DHCP client Product functions / redundancy Product function Statistics Product functions / Yes Product functions / redundancy Product functions / redundancy Product function / Yes Product functions / redundancy Product function / Yes Product functions / Yes | | Yes |
| Product function Product function Product functions / DHCP Product functions / DHCP Product function DHCP client Product functions / redundancy Product function Product function / Yes | | |
| Port diagnostics Statistics Packet Size Statistics packet type Froduct functions / DHCP Product function DHCP client Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) Statistics Yes Yes Product function Yes Product functions / redundancy Product function Yes Product function Yes Yes No No | Product functions / Diagnostics | |
| Statistics Packet Size Statistics packet type Froduct functions / DHCP Product function DHCP client Product functions / redundancy Product function High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | Product function | |
| Statistics packet type Error statistics Product functions / DHCP Product function DHCP client Product functions / redundancy Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | Port diagnostics | Yes |
| ● Error statistics Product functions / DHCP Product function ● DHCP client Yes Product functions / redundancy Product function ● Ring redundancy ● High Speed Redundancy Protocol (HRP) ● high speed redundancy protocol (HRP) with redundancy manager ● high speed redundancy protocol (HRP) with No | Statistics Packet Size | Yes |
| Product functions / DHCP Product function • DHCP client Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with No | Statistics packet type | Yes |
| Product function • DHCP client Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with No | • Error statistics | Yes |
| Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | | |
| Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | | |
| Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with No | DHCP client | Yes |
| Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | | |
| High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | | |
| high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with No | Ring redundancy | |
| redundancy manager • high speed redundancy protocol (HRP) with No | High Speed Redundancy Protocol (HRP) | |
| ingli operations, protessi (i ii ii) illian | | Yes |
| | | No |

| Protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
|---|--|
| Product function | |
| media redundancy protocol (MRP) with redundancy manager | Yes |
| Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| Passive listening | Yes |
| Product functions / Security | |
| Protocol / is supported | |
| • SSH | Yes |
| Product functions / time | |
| Product function | |
| SICLOCK support | Yes |
| 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 hazardous zone | EN 60079-0: 2006, EN60079-15: 2005, II 3 (2) G Ex nA [op is] IIC T4, KEMA 07 ATEX 0145 X |
| for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| • for hazardous zone / from 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 |
| • for emitted interference | EN 61000-6-4:2001 (Class A) |
| • for interference immunity | EN 61000-6-4:2001 |
| MTBF | 74.64 y |
| Standards, specifications, approvals / CE | |
| Certificate of suitability / CE marking | Yes |
| Standards, specifications, approvals / other | |
| Certificate of suitability | EN 61000-6-4:2001 |
| • C-Tick | Yes |
| Railway application in accordance with EN 50155 | No |
| Railway application in accordance with EN 50124-1 | No |
| KC approval | Yes |

Standards, specifications, approvals / marine classification

Marine classification association

• American Bureau of Shipping Europe Ltd.

Bureau Veritas (BV)

• Det Norske Veritas (DNV)

• Germanische Lloyd (GL)

• Korean Register of Shipping (KRS)

• Lloyds Register of Shipping (LRS)

Nippon Kaiji Kyokai (NK)

• Polski Rejestr Statkow (PRS)

• Royal Institution of Naval Architects (RINA)

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

Further information / Internet-Links

Internet-Link

• to website: Selector SIMATIC NET

SELECTION TOOL

• 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/snst

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

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