

6GK5212-2BB00-2AA3 SCALANCE X212-2

Technical Data

Product-type designation



SCALANCE X212-2

SCALANCE X212-2, MANAGED IE SWITCH, 12 X 10/100MBIT/S RJ45 PORTS, 2 X 100MBIT/S MULTIMODE BFOC, LED-DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY PROFINET-IO DEVICE, NETWORK- MANAGEMENT, INTEGRATED REDUNDANCY MANAGER, INCL. ELECTRONIC MANUAL ON CD, C-PLUG OPTIONAL

Transmission rate

| | |
|-------------------|------------|
| Transfer rate / 1 | 10 Mbit/s |
| Transfer rate / 2 | 100 Mbit/s |

Interfaces

| | |
|--|-------------------------------------|
| Number of electrical/optical connections | |
| <ul style="list-style-type: none"> for network components or terminal equipment / maximum | 14 |
| Number of electrical connections | |
| <ul style="list-style-type: none"> for network components and terminal equipment | 12 |
| <ul style="list-style-type: none"> for alarm contact | 1 |
| <ul style="list-style-type: none"> for power supply | 1 |
| <ul style="list-style-type: none"> for redundant power supply | 1 |
| Design of electrical connection | |
| <ul style="list-style-type: none"> for network components and terminal equipment | RJ45 port |
| <ul style="list-style-type: none"> for signaling contact | 2-pole terminal block |
| <ul style="list-style-type: none"> for power supply | 4-pole terminal block |
| Number of optical interfaces / for optical waveguide / at 100 Mbit/s | 2 |
| Design of optical interface / for optical waveguide / at 100 Mbit/s | BFOC sockets (multimode up to 5 km) |
| Connectable optical power relative to 1 mW | |
| <ul style="list-style-type: none"> of the transmitter output | -19...-14 dB |

| | |
|---|---|
| Optical sensitivity relative to 1 mW / of the receiver input / minimum | -34 dB |
| Attenuation / of fiber-optic cable transmission link / minimum necessary | 0 dB |
| Range / at the optical interface / depending on the optical fiber used | 0...5 km |
| design of the removable storage / C-PLUG | Yes |
| Inputs/outputs | |
| Operating voltage / of signaling contacts / at DC / rated value | 24 V |
| Operating current / of signaling contacts / at DC / maximum | 0.1 A |
| Supply voltage, current consumption, power loss | |
| Type of voltage / of supply voltage | DC |
| Supply voltage / external | 24 V |
| • minimum | 18 V |
| • maximum | 32 V |
| Product component / fusing at power supply input | Yes |
| Consumed current / maximum | 0.33 A |
| Active power loss / at 24 V / for DC | 7.92 W |
| Permitted ambient conditions | |
| Ambient temperature | |
| • during operating | -40...+60 °C |
| • during storage | -40...+70 °C |
| • during transport | -40...+70 °C |
| Relative humidity / at 25 °C / without condensation / during operating / maximum | 95 % |
| Protection class IP | IP30 |
| Design, dimensions and weight | |
| Design | compact |
| Width | 120 mm |
| Height | 125 mm |
| Depth | 124 mm |
| Net weight | 1.2 kg |
| Type of mounting | |
| • 35 mm DIN rail mounting | Yes |
| • wall mounting | Yes |
| • S7-300 rail mounting | Yes |
| Product properties, functions, components / general | |
| Cascading in the case of a redundant ring / at reconfiguration time of $\sim 0.3\text{ s}$ | 50 |
| Cascading in cases of star structuring | Any (depending only on signal propagation time) |
| Product function | |
| • CLI | Yes |
| • web-based management | Yes |
| • MIB support | Yes |
| • TRAPs via email | Yes |
| • Configuration with STEP 7 | Yes |

| | |
|---|---------------------------------------|
| • Port mirroring | Yes |
| • for IRT / PROFINET IO switch | No |
| • PROFINET IO diagnosis | Yes |
| • switch-managed | Yes |
| Protocol / is supported | |
| • Telnet | Yes |
| • HTTP | Yes |
| • HTTPS | Yes |
| • TFTP | Yes |
| • FTP | Yes |
| • BOOTP | No |
| • SNMP v1 | Yes |
| • SNMP v2 | Yes |
| • SNMP v3 | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| Identification & maintenance | |
| • I&M0 - device-specific information | Yes |
| • I&M1 - plant identification/location name | Yes |
| Product functions / Diagnosis | |
| Product function | |
| • Port diagnostics | Yes |
| • Statistics Packet Size | Yes |
| • Statistics packet type | Yes |
| • Error statistics | Yes |
| Product functions / DHCP | |
| Product function / DHCP client | Yes |
| Product functions / Redundancy | |
| Product function | |
| • Ring redundancy | Yes |
| • Redundancy manager | Yes |
| • Standby redundancy | No |
| • HSR redundancy protocol | Yes |
| • MRP redundancy protocol | Yes |
| • redundancy procedure PRP | No |
| • Passive listening | Yes |
| Protocol / is supported / PRP | 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 EMC / from FM | FM3611: Class 1, Division 2, Group A, |

| | |
|---|--|
| <ul style="list-style-type: none"> • for hazardous zone | B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 |
| <ul style="list-style-type: none"> • for safety / of CSA and UL | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X |
| <ul style="list-style-type: none"> • for hazardous area / of CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| <ul style="list-style-type: none"> • for emitted interference | 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 |
| <ul style="list-style-type: none"> • for interference immunity | EN 61000-6-4:2001 (Class A) |
| Verification of suitability | EN 61000-6-2:2001 |
| <ul style="list-style-type: none"> • CE mark | EN 61000-6-2:2001, EN 61000-6-4:2001 |
| <ul style="list-style-type: none"> • C-Tick | Yes |
| <ul style="list-style-type: none"> • KC approval | Yes |
| <ul style="list-style-type: none"> • Railway application in accordance with EN 50155 | Yes |
| <ul style="list-style-type: none"> • Railway application in accordance with EN 50124-1 | No |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) | No |
| <ul style="list-style-type: none"> • Bureau Veritas (BV) | Yes |
| <ul style="list-style-type: none"> • Det Norske Veritas (DNV) | Yes |
| <ul style="list-style-type: none"> • Germanische Lloyd (GL) | Yes |
| <ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) | Yes |
| <ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) | Yes |
| <ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) | Yes |
| <ul style="list-style-type: none"> • Polish Register of Shipping (PRS) | No |
| letzte Änderung: | May 14, 2012 |