MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

## 6GK5004-1BF00-1AB2

**UNMANAGED INDUSTRIAL ETHERNET SWITCH**

Used with the applicable SCALANCE XB004-1LD configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6GK5004-1BF00-1AB2 official product data; applicable specification pages.

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## Data sheet 6GK5004-1BF00-1AB2

**Product type designation**

**SCALANCE XB004-1LD**

SCALANCE XB004-1LD UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 4 X 10/100MBIT/S TWISTED PAIR- PORTS WITH RJ45-SOCKETS; 1 X100MBIT/S SINGLEMODE GLASS FOC-PORT WITH SC-SOCKET; FOR CONFIGURING SMALL STAR- AND LINE TOPOGRAPHIES; LED-DIAGNOSIS, IP20, 24 V DC POWER SUPPLY, MANUAL AVAILABLE AS DOWNLOAD



| | |
|---|---|
| **Transmission rate** | |
| Transfer rate | 10 Mbit/s, 100 Mbit/s |
| **Interfaces / for communication / integrated** | |
| Number of electrical connections | |
| • for network components or terminal equipment | 4; RJ45 |
| Number of 100 Mbit/s SC ports | |
| • for multimode | 0 |
| • for single mode (LD) | 1 |
| Number of 1000 Mbit/s LC ports | |
| • for multimode | 0 |
| • for single mode (LD) | 0 |
| **Interfaces / others** | |
| Number of electrical connections | |
| • for power supply | 1 |
| Type of electrical connection | |
| • for power supply | 3-pole terminal block |
| **Supply voltage, current consumption, power loss** | |


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| | |
|---|---|
| Type of voltage / of the supply voltage | AC/DC |
| Supply voltage | |
| • external | 24 V |
| • external | 19.2 ... 28.8 V |
| • at AC | 24 V |
| Product component / fusing at power supply input | Yes |
| Fuse protection type / at input for supply voltage | 0.6 A / 60 V |
| Consumed current / maximum | 0.1 A |
| Power loss [W] | |
| • at DC / at 24 V | 2.4 W |

## Permitted ambient conditions

| | |
|---|---|
| Ambient temperature | |
| • during operation | -10 ... +60 °C |
| • during storage | -40 ... +80 °C |
| • during transport | -40 ... +80 °C |
| Relative humidity | |
| • at 25 °C / without condensation / during operation / maximum | 95 % |
| Protection class IP | IP20 |

## Design, dimensions and weight

| | |
|---|---|
| Design | Box |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 87 mm |
| Net weight | 0.165 kg |
| Mounting type | |
| • 35 mm DIN rail mounting | Yes |
| • wall mounting | Yes |
| • S7-1500 rail mounting | No |

## Product functions / management, configuration

| | |
|---|---|
| Product function | |
| • multiport mirroring | No |
| • CoS | Yes |
| • switch-managed | No |

## Product functions / Redundancy

| | |
|---|---|
| Product function | |
| • Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |

## Standards, specifications, approvals


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| | |
|---|---|
| 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 60079-0:2009, EN60079-15:2010, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X |
| • for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| • for emitted interference | EN 61000-6-4 (Class A) |
| • for interference immunity | EN 61000-6-2 |
| Certificate of suitability / CE marking | Yes |
| Certificate of suitability | EN 61000-6-2, EN 61000-6-4 |
| • C-Tick | Yes |
| • KC approval | Yes |
| MTBF / at 40 °C | 238 y |

## Further Information / Internet Links

| | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • 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) |
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