



SCALANCE XB216 managed Layer 2 IE switch, 16X 10/100 Mbit/s RJ45 ports, 1x console port, diagnostics LED, redundant power supply IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; DIN-rail mounting, PROFINET IO device Ethernet/IP certificate, default PROFINET.

| product type designation                                       |                         |
|----------------------------------------------------------------|-------------------------|
| product brand name                                             | SCALANCE                |
| product type designation                                       | XB216                   |
| transfer rate                                                  |                         |
| transfer rate                                                  | 10 Mbit/s, 100 Mbit/s   |
| interfaces / for communication / integrated                    |                         |
| number of electrical connections                               |                         |
| • for network components or terminal equipment                 | 16; RJ45                |
| interfaces / other                                             |                         |
| number of electrical connections                               |                         |
| • for operator console                                         | 1                       |
| • for power supply                                             | 1                       |
| type of electrical connection                                  |                         |
| • for operator console                                         | RJ11                    |
| • for management purposes                                      | RJ45                    |
| supply voltage, current consumption, power loss                |                         |
| product component / connection for redundant voltage supply    | Yes                     |
| type of voltage / 1 / of the supply voltage                    | DC                      |
| • supply voltage / 1 / rated value                             | 24 V                    |
| • power loss [W] / 1 / rated value                             | 6.7 W                   |
| • supply voltage / 1 / rated value                             | 19.2 ... 28.8 V         |
| • consumed current / 1 / maximum                               | 0.28 A                  |
| • type of electrical connection / 1 / for power supply         | 6-pole terminal block   |
| • product component / 1 / fusing at power supply input         | Yes                     |
| ambient conditions                                             |                         |
| ambient temperature                                            |                         |
| • during operation                                             | 0 ... 60 °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                                            | IP20                    |
| design, dimensions and weights                                 |                         |
| width                                                          | 80 mm                   |
| height                                                         | 117 mm                  |
| depth                                                          | 109 mm                  |
| net weight                                                     | 0.4 kg                  |
| material / of the enclosure                                    | Polycarbonate (PC-GF10) |
| fastening method                                               |                         |

|                                                                                  |                                                 |
|----------------------------------------------------------------------------------|-------------------------------------------------|
| • 35 mm top hat DIN rail mounting                                                | Yes                                             |
| <b>product features, product functions, product components / general</b>         |                                                 |
| cascading in the case of a redundant ring / at reconfiguration time of <1~0.31~s | 50                                              |
| cascading in cases of star topology                                              | any (depending only on signal propagation time) |
| <b>product functions / management, configuration, engineering</b>                |                                                 |
| product function                                                                 |                                                 |
| • CLI                                                                            | Yes                                             |
| • web-based management                                                           | Yes                                             |
| • MIB support                                                                    | Yes                                             |
| • TRAPs via email                                                                | Yes                                             |
| • configuration with STEP 7                                                      | Yes                                             |
| • RMON                                                                           | Yes                                             |
| • port mirroring                                                                 | Yes                                             |
| • multiport mirroring                                                            | Yes                                             |
| • CoS                                                                            | Yes                                             |
| • PROFINET IO diagnosis                                                          | Yes                                             |
| • switch-managed                                                                 | Yes                                             |
| PROFINET conformity class                                                        | B                                               |
| network load class / according to PROFINET                                       | 3                                               |
| telegram length / for Ethernet / maximum                                         | 1632 byte                                       |
| protocol / is supported                                                          |                                                 |
| • Telnet                                                                         | Yes                                             |
| • HTTP                                                                           | Yes                                             |
| • HTTPS                                                                          | Yes                                             |
| • TFTP                                                                           | Yes                                             |
| • SFTP                                                                           | Yes                                             |
| • DCP                                                                            | Yes                                             |
| • LLDP                                                                           | Yes                                             |
| • EtherNet/IP                                                                    | Yes                                             |
| • SNMP v1                                                                        | Yes                                             |
| • SNMP v2                                                                        | Yes                                             |
| • SNMP v3                                                                        | Yes                                             |
| • IGMP (snooping/querier)                                                        | Yes                                             |
| identification & maintenance function                                            |                                                 |
| • I&M0 - device-specific information                                             | Yes                                             |
| • I&M1 - higher level designation/location designation                           | Yes                                             |
| <b>product functions / diagnostics</b>                                           |                                                 |
| product function                                                                 |                                                 |
| • port diagnostics                                                               | Yes                                             |
| • statistics Packet Size                                                         | Yes                                             |
| • statistics packet type                                                         | Yes                                             |
| • error statistics                                                               | Yes                                             |
| • SysLog                                                                         | Yes                                             |
| <b>product functions / VLAN</b>                                                  |                                                 |
| product function                                                                 |                                                 |
| • VLAN - port based                                                              | Yes                                             |
| number of VLANs / maximum                                                        | 257                                             |
| number of VLANs - dynamic / maximum                                              | 257                                             |
| number of VLANs / at ring redundancy (HRP; MRP; standby link)                    | 257                                             |
| <b>product functions / DHCP</b>                                                  |                                                 |
| product function                                                                 |                                                 |
| • DHCP client                                                                    | Yes                                             |
| <b>product functions / redundancy</b>                                            |                                                 |
| protocol / is supported / Media Redundancy Protocol (MRP)                        | Yes                                             |
| product function                                                                 |                                                 |
| • media redundancy protocol (MRP) with redundancy manager                        | Yes                                             |
| • Media Redundancy Protocol Interconnection (MRP-I)                              | Yes                                             |
| • of the PROFINET IO device / is supported / PROFINET system redundancy          | No                                              |

|                                                                                                                     |                                           |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• ring redundancy</li> </ul>                                                 | Yes                                       |
| <ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>    | Yes                                       |
| <ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>    | Yes                                       |
| <ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>                                        | Yes                                       |
| <ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>                                       | Yes                                       |
| <ul style="list-style-type: none"> <li>• redundancy procedure RSTP+</li> </ul>                                      | Yes                                       |
| <ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul> | Yes                                       |
| <ul style="list-style-type: none"> <li>• passive listening</li> </ul>                                               | Yes                                       |
| <b>product functions / security</b>                                                                                 |                                           |
| product function                                                                                                    |                                           |
| <ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>                                            | Yes                                       |
| <ul style="list-style-type: none"> <li>• RADIUS client</li> </ul>                                                   | Yes                                       |
| <ul style="list-style-type: none"> <li>• broadcast/multicast/unicast limiter</li> </ul>                             | Yes                                       |
| <ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>                                              | Yes                                       |
| protocol / is supported                                                                                             |                                           |
| <ul style="list-style-type: none"> <li>• SSH</li> </ul>                                                             | Yes                                       |
| <ul style="list-style-type: none"> <li>• SSL</li> </ul>                                                             | Yes                                       |
| <b>product functions / time</b>                                                                                     |                                           |
| product function                                                                                                    |                                           |
| <ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>                                                 | Yes                                       |
| <ul style="list-style-type: none"> <li>• NTP-client</li> </ul>                                                      | Yes                                       |
| <ul style="list-style-type: none"> <li>• SNTP client</li> </ul>                                                     | Yes                                       |
| protocol / is supported                                                                                             |                                           |
| <ul style="list-style-type: none"> <li>• SNTP</li> </ul>                                                            | Yes                                       |
| <b>standards, specifications, approvals</b>                                                                         |                                           |
| certificate of suitability                                                                                          |                                           |
| <ul style="list-style-type: none"> <li>• CE marking</li> </ul>                                                      | Yes                                       |
| <ul style="list-style-type: none"> <li>• KC approval</li> </ul>                                                     | Yes                                       |
| <ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>                                | Yes                                       |
| standard                                                                                                            |                                           |
| <ul style="list-style-type: none"> <li>• for EMC interference emission</li> </ul>                                   | EN 61000-6-4 (Class A)                    |
| <ul style="list-style-type: none"> <li>• for immunity to EMC</li> </ul>                                             | EN 61000-6-2                              |
| <ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>                                    | UL 60950-1 E115352, CSA C22.2 No. 60950-1 |
| <b>standards, specifications, approvals / hazardous environments</b>                                                |                                           |
| certificate of suitability                                                                                          |                                           |
| <ul style="list-style-type: none"> <li>• ATEX</li> </ul>                                                            | Yes                                       |
| <ul style="list-style-type: none"> <li>• UKEX</li> </ul>                                                            | Yes                                       |
| <ul style="list-style-type: none"> <li>• IECEx</li> </ul>                                                           | Yes                                       |
| <ul style="list-style-type: none"> <li>• ULhazloc approval</li> </ul>                                               | Yes                                       |
| <ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>               | Yes                                       |
| <ul style="list-style-type: none"> <li>• FM registration</li> </ul>                                                 | Yes                                       |
| <b>standards, specifications, approvals / other</b>                                                                 |                                           |
| certificate of suitability                                                                                          |                                           |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>                                                 | Yes                                       |
| resistance to air pollution / conformity according to ANSI/ISA-71.04                                                | Yes                                       |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019                                     | Yes                                       |
| <b>standards, specifications, approvals / Environmental Product Declaration</b>                                     |                                           |
| Environmental Product Declaration                                                                                   | Yes                                       |
| Global Warming Potential [CO2 eq]                                                                                   |                                           |
| <ul style="list-style-type: none"> <li>• total</li> </ul>                                                           | 252.5 kg                                  |
| <ul style="list-style-type: none"> <li>• during manufacturing</li> </ul>                                            | 26.6 kg                                   |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                                                | 225.28 kg                                 |
| <ul style="list-style-type: none"> <li>• after end of life</li> </ul>                                               | 0.6 kg                                    |
| <b>product functions / general</b>                                                                                  |                                           |
| MTBF                                                                                                                | 60 a                                      |
| reference code                                                                                                      |                                           |
| <ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>                                        | KF                                        |

|                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------|
| • according to IEC 81346-2:2019                                                                                                                                                                                                                                                                                                                                               | KFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |                                                                                             |                                           |                                                                                              |
| Warranty period                                                                                                                                                                                                                                                                                                                                                               | 5 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |                                                                                             |                                           |                                                                                              |
| product function / is supported / identification link                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |                                                                                             |                                           |                                                                                              |
| further information / internet links                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |
| internet link <ul style="list-style-type: none"><li>to website: Selection guide for cables and connectors</li><li>to web page: selection aid TIA Selection Tool</li><li>to website: Industrial communication</li><li>to web page: SiePortal</li><li>to website: Image database</li><li>to website: CAX-Download-Manager</li><li>to website: Industry Online Support</li></ul> | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                              |                                                                                             |                                           |                                                                                              |
| security information                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |
| security information                                                                                                                                                                                                                                                                                                                                                          | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="https://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7) |                                                                                              |                                                                                             |                                           |                                                                                              |
| Approvals / Certificates                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |
| <br>EG-Konf.                                                                                                                                                                                                                                                                               | <a href="#">Declaration of Conformity</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <br>CCC   | <br>UL   | <a href="#">Declaration of Conformity</a> | <br>RCM |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                      | EMV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | For use in hazardous locations                                                               |                                                                                             |                                           |                                                                                              |
| <br>TUV                                                                                                                                                                                                                                                                                    | <a href="#">KC</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <br>IECEX | <br>ATEX | <a href="#">FM</a>                        | <a href="#">CCC-Ex</a>                                                                       |
| Radio Equipment Type Approval Certificate                                                                                                                                                                                                                                                                                                                                     | Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Industrial Communication                                                                     |                                                                                             |                                           |                                                                                              |
| <a href="#">KC</a>                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Confirmation</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>EPD   |                                                                                             |                                           |                                                                                              |
| <a href="#">PROFINET</a>                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                                                                             |                                           |                                                                                              |

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