



SCALANCE XB205-3 managed Layer 2 IE Switch 5x IEC 62443-4-2 certified; 10/100 Mbps RJ45 ports 3x MM FO SC port 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-compliant; default EtherNet/IP.

| product type designation                                       |                                                                                                     |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| product brand name                                             | SCALANCE                                                                                            |
| product type designation                                       | XB205-3                                                                                             |
| Technical Product Detail Page                                  | <a href="https://i.siemens.com/1P6GK5205-3BD00-2TB2">https://i.siemens.com/1P6GK5205-3BD00-2TB2</a> |
| transfer rate                                                  |                                                                                                     |
| transfer rate                                                  | 10, 100 Mbit/s                                                                                      |
| interfaces / for communication / integrated                    |                                                                                                     |
| number of electrical connections                               |                                                                                                     |
| • for network components or terminal equipment                 | 5; RJ45                                                                                             |
| number of 100 Mbit/s SC ports                                  |                                                                                                     |
| • for multimode                                                | 3                                                                                                   |
| transmission method / of the optical interface                 | 100BaseFX                                                                                           |
| 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                                                                                                 |
| <b>type of voltage / 1 / of the supply voltage</b>             | DC                                                                                                  |
| • supply voltage / 1 / rated value                             | 24 V                                                                                                |
| • power loss [W] / 1 / rated value                             | 7.2 W                                                                                               |
| • supply voltage / 1 / voltage range                           | 19.2 ... 28.8                                                                                       |
| • consumed current / 1 / maximum                               | 0.3 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                                 |                                                                                                     |
| design                                                         | compact                                                                                             |

|                                                                                                            |                                                 |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| width                                                                                                      | 80 mm                                           |
| height                                                                                                     | 117 mm                                          |
| depth                                                                                                      | 109 mm                                          |
| net weight                                                                                                 | 0.35 kg                                         |
| material / of the enclosure                                                                                | Polycarbonate (PC-GF10)                         |
| fastening method                                                                                           |                                                 |
| <ul style="list-style-type: none"><li>• 35 mm DIN-rail mounting</li></ul>                                  | Yes                                             |
| product features, product functions, product components / general                                          |                                                 |
| cascading in the case of a redundant ring / at reconfiguration time of <~0.3~s                             | 50                                              |
| cascading in cases of star topology                                                                        | any (depending only on signal propagation time) |
| product functions / management, configuration, engineering                                                 |                                                 |
| product function                                                                                           |                                                 |
| <ul style="list-style-type: none"><li>• CLI</li></ul>                                                      | Yes                                             |
| <ul style="list-style-type: none"><li>• web-based management</li></ul>                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• MIB support</li></ul>                                              | Yes                                             |
| <ul style="list-style-type: none"><li>• TRAPs via email</li></ul>                                          | Yes                                             |
| <ul style="list-style-type: none"><li>• configuration with STEP 7</li></ul>                                | Yes                                             |
| <ul style="list-style-type: none"><li>• RMON</li></ul>                                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• port mirroring</li></ul>                                           | Yes                                             |
| <ul style="list-style-type: none"><li>• multiport mirroring</li></ul>                                      | Yes                                             |
| <ul style="list-style-type: none"><li>• CoS</li></ul>                                                      | Yes                                             |
| <ul style="list-style-type: none"><li>• PROFINET IO diagnosis</li></ul>                                    | Yes                                             |
| <ul style="list-style-type: none"><li>• switch-managed</li></ul>                                           | Yes                                             |
| PROFINET conformity class                                                                                  | B                                               |
| network load class / according to PROFINET                                                                 | III                                             |
| telegram length / for Ethernet / maximum                                                                   | 1632 byte                                       |
| protocol / is supported                                                                                    |                                                 |
| <ul style="list-style-type: none"><li>• Telnet</li></ul>                                                   | Yes                                             |
| <ul style="list-style-type: none"><li>• HTTP</li></ul>                                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• HTTPS</li></ul>                                                    | Yes                                             |
| <ul style="list-style-type: none"><li>• TFTP</li></ul>                                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• SFTP</li></ul>                                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• BOOTP</li></ul>                                                    | Yes                                             |
| <ul style="list-style-type: none"><li>• DCP</li></ul>                                                      | Yes                                             |
| <ul style="list-style-type: none"><li>• LLDP</li></ul>                                                     | Yes                                             |
| <ul style="list-style-type: none"><li>• EtherNet/IP</li></ul>                                              | Yes                                             |
| <ul style="list-style-type: none"><li>• SNMP v1</li></ul>                                                  | Yes                                             |
| <ul style="list-style-type: none"><li>• SNMP v2</li></ul>                                                  | Yes                                             |
| <ul style="list-style-type: none"><li>• SNMP v3</li></ul>                                                  | Yes                                             |
| <ul style="list-style-type: none"><li>• IGMP (snooping/querier)</li></ul>                                  | Yes                                             |
| identification & maintenance function                                                                      |                                                 |
| <ul style="list-style-type: none"><li>• I&amp;M0 - device-specific information</li></ul>                   | Yes                                             |
| <ul style="list-style-type: none"><li>• I&amp;M1 - higher level designation/location designation</li></ul> | Yes                                             |
| product functions / diagnostics                                                                            |                                                 |
| product function                                                                                           |                                                 |
| <ul style="list-style-type: none"><li>• port diagnostics</li></ul>                                         | Yes                                             |
| <ul style="list-style-type: none"><li>• statistics Packet Size</li></ul>                                   | Yes                                             |
| <ul style="list-style-type: none"><li>• statistics packet type</li></ul>                                   | Yes                                             |
| <ul style="list-style-type: none"><li>• error statistics</li></ul>                                         | Yes                                             |
| <ul style="list-style-type: none"><li>• SysLog</li></ul>                                                   | Yes                                             |
| product functions / VLAN                                                                                   |                                                 |
| product function                                                                                           |                                                 |
| <ul style="list-style-type: none"><li>• VLAN - port based</li></ul>                                        | Yes                                             |
| number of VLANs / maximum                                                                                  | 257                                             |
| number of VLANs - dynamic / maximum                                                                        | 257                                             |
| number of VLANs / at ring redundancy (HRP; MRP; standby link)                                              | 257                                             |
| product functions / DHCP                                                                                   |                                                 |

|                                                                                 |                                           |
|---------------------------------------------------------------------------------|-------------------------------------------|
| 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; LC mode                              |
| • of the PROFINET IO device / is supported / PROFINET system redundancy         | No                                        |
| • ring redundancy                                                               | Yes                                       |
| • high speed redundancy protocol (HRP) with redundancy manager                  | Yes                                       |
| • high speed redundancy protocol (HRP) with standby redundancy                  | Yes                                       |
| • redundancy procedure STP                                                      | Yes                                       |
| • redundancy procedure RSTP                                                     | Yes                                       |
| • redundancy procedure RSTP+                                                    | Yes                                       |
| • Parallel Redundancy Protocol (PRP)/operation in the PRP-network               | Yes                                       |
| • passive listening                                                             | Yes                                       |
| <b>product functions / security</b>                                             |                                           |
| product function                                                                |                                           |
| • IEEE 802.1x (radius)                                                          | Yes                                       |
| • RADIUS client                                                                 | Yes                                       |
| • broadcast/multicast/unicast limiter                                           | Yes                                       |
| • broadcast blocking                                                            | Yes                                       |
| protocol / is supported                                                         |                                           |
| • SSH                                                                           | Yes                                       |
| • SSL                                                                           | Yes                                       |
| <b>product functions / time</b>                                                 |                                           |
| product function                                                                |                                           |
| • SICLOCK support                                                               | Yes                                       |
| • NTP-client                                                                    | Yes                                       |
| • SNTP client                                                                   | Yes                                       |
| protocol / is supported                                                         |                                           |
| • SNTP                                                                          | Yes                                       |
| <b>standards, specifications, approvals</b>                                     |                                           |
| certificate of suitability                                                      |                                           |
| • CE marking                                                                    | Yes                                       |
| • cULus approval                                                                | Yes                                       |
| • KC approval                                                                   | Yes                                       |
| • Regulatory Compliance Mark (RCM)                                              | Yes                                       |
| standard                                                                        |                                           |
| • for EMC interference emission                                                 | EN 61000-6-4 (Class A)                    |
| • for immunity to EMC                                                           | EN 61000-6-2                              |
| • for safety / from CSA and UL                                                  | UL 60950-1 E115352, CSA C22.2 No. 60950-1 |
| <b>standards, specifications, approvals / hazardous environments</b>            |                                           |
| certificate of suitability                                                      |                                           |
| • ATEX                                                                          | Yes                                       |
| • UKEX                                                                          | Yes                                       |
| • IECEx                                                                         | Yes                                       |
| • ULhazloc approval                                                             | Yes                                       |
| • CCC / for hazardous zone according to GB standard                             | Yes                                       |
| • FM registration                                                               | Yes                                       |
| <b>standards, specifications, approvals / other</b>                             |                                           |
| certificate of suitability                                                      |                                           |
| • RoHS conformity                                                               | Yes                                       |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes                                       |

| standards, specifications, approvals / Environmental Product Declaration            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Environmental Product Declaration                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |
| global warming potential [CO2 eq]                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| • total                                                                             | 266.76999 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |
| • during manufacturing                                                              | 40.94 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
| • during operation                                                                  | 225.31999 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |
| • after end of life                                                                 | 0.51 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| product functions / general                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| MTBF                                                                                | 55 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| warranty period                                                                     | 5 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |
| product function / is supported / identification link                               | Yes; acc. to IEC 61406-1:2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| further information / internet links                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| internet link                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| • to website: Selection guide for cables and connectors                             | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| • to web page: selection aid TIA Selection Tool                                     | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| • to website: Industrial communication                                              | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |
| • to web page: SiePortal                                                            | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| • to website: Image database                                                        | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |
| • to website: CAx-Download-Manager                                                  | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |
| • to website: Industry Online Support                                               | <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="http://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                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| Environmental Product Declaration                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| • global warming potential [CO2 eq] / during manufacturing                          | 40.94 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
| • global warming potential [CO2 eq] / during operation                              | 225.32 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
| • global warming potential [CO2 eq] / after end of life                             | 0.51 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| • global warming potential [CO2 eq] / total                                         | 266.77 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
| Environment                                                                         | General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|  |  <a href="#">Declaration of Conformity</a>  <a href="#">China RoHS</a> <a href="#">Manufacturer Declaration</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |
| General Product Approval                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
|  | <a href="#">Miscellaneous</a> <a href="#">Declaration of Conformity</a>  <a href="#">TUEV</a>  <a href="#">EG-Konf.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| General Product Approval                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| General Product Approval                                                            | EMV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | For use in hazardous locations |

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|                                |                          |
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| For use in hazardous locations | Industrial Communication |
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