



SCALANCE XB005 unmanaged Industrial Ethernet Switch for 10/100 Mbit/s; for setting up small star and line topologies; LED diagnostics, IP20, 24 V AC/DC power supply, with 5x 10/100 Mbit/s twisted pair ports with RJ45 sockets; Manual available as a download .

| product type designation                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                                                                                                                                                                            | SCALANCE                                                                                          |
| product type designation                                                                                                                                                                                                                                                                                                                                                                                                                                      | XB005                                                                                             |
| transfer rate                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                   |
| transfer rate                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 Mbit/s, 100 Mbit/s                                                                             |
| interfaces / for communication / integrated                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                   |
| number of electrical connections <ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>                                                                                                                                                                                                                                                                                                                               | 5; RJ45                                                                                           |
| number of 100 Mbit/s SC ports <ul style="list-style-type: none"> <li>for multimode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                 |
| interfaces / other                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| number of electrical connections <ul style="list-style-type: none"> <li>for power supply</li> </ul>                                                                                                                                                                                                                                                                                                                                                           | 1                                                                                                 |
| type of electrical connection <ul style="list-style-type: none"> <li>for power supply</li> </ul>                                                                                                                                                                                                                                                                                                                                                              | 3-pole terminal block                                                                             |
| supply voltage, current consumption, power loss                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                   |
| <b>type of voltage / 1 / of the supply voltage</b> <ul style="list-style-type: none"> <li>supply voltage / 1 / rated value</li> <li>power loss [W] / 1 / rated value</li> <li>supply voltage / 1 / rated value</li> <li>consumed current / 1 / maximum</li> <li>type of electrical connection / 1 / for power supply</li> <li>product component / 1 / fusing at power supply input</li> <li>fuse protection type / 1 / at input for supply voltage</li> </ul> | DC<br>24 V<br>1.68 W<br>19.2 ... 28.8 V<br>0.07 A<br>3-pole terminal block<br>Yes<br>0.6 A / 60 V |
| <b>type of voltage / 2 / of the supply voltage</b> <ul style="list-style-type: none"> <li>supply voltage / 2 / rated value</li> </ul>                                                                                                                                                                                                                                                                                                                         | AC<br>19.2 ... 28.8 V                                                                             |
| ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |
| ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>                                                                                                                                                                                                                                                                                                                      | -10 ... +60 °C<br>-40 ... +80 °C<br>-40 ... +80 °C                                                |
| relative humidity <ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>                                                                                                                                                                                                                                                                                                                              | 95 %                                                                                              |
| protection class IP                                                                                                                                                                                                                                                                                                                                                                                                                                           | IP20                                                                                              |
| design, dimensions and weights                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |
| design                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Box                                                                                               |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 45 mm                                                                                             |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100 mm                                                                                            |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 87 mm                                                                                             |

|                                                                                 |                                                                                                                                         |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| net weight                                                                      | 0.165 kg                                                                                                                                |
| fastening method                                                                |                                                                                                                                         |
| • 35 mm DIN-rail mounting                                                       | Yes                                                                                                                                     |
| • wall mounting                                                                 | Yes                                                                                                                                     |
| • S7-1500 rail mounting                                                         | No                                                                                                                                      |
| <b>product functions / management, configuration, engineering</b>               |                                                                                                                                         |
| product function                                                                |                                                                                                                                         |
| • multiport mirroring                                                           | No                                                                                                                                      |
| • CoS                                                                           | Yes                                                                                                                                     |
| • switch-managed                                                                | No                                                                                                                                      |
| PROFINET conformity class                                                       | A                                                                                                                                       |
| <b>product functions / redundancy</b>                                           |                                                                                                                                         |
| product function                                                                |                                                                                                                                         |
| • Parallel Redundancy Protocol (PRP)/operation in the PRP-network               | Yes                                                                                                                                     |
| • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)             | No                                                                                                                                      |
| <b>standards, specifications, approvals</b>                                     |                                                                                                                                         |
| certificate of suitability                                                      |                                                                                                                                         |
| • CE marking                                                                    | 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, 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                                                                                                                                     |
| resistance to air pollution / conformity according to ANSI/ISA-71.04            | Yes; G3                                                                                                                                 |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |                                                                                                                                         |
| Environmental Product Declaration                                               | Yes                                                                                                                                     |
| global warming potential [CO2 eq]                                               |                                                                                                                                         |
| • total                                                                         | 57.94 kg                                                                                                                                |
| • during manufacturing                                                          | 7.42 kg                                                                                                                                 |
| • during operation                                                              | 50.38 kg                                                                                                                                |
| • after end of life                                                             | 0.14 kg                                                                                                                                 |
| <b>product functions / general</b>                                              |                                                                                                                                         |
| MTBF                                                                            | 241 a                                                                                                                                   |
| reference code                                                                  |                                                                                                                                         |
| • according to IEC 81346-2                                                      | KF                                                                                                                                      |
| • according to IEC 81346-2:2019                                                 | KFE                                                                                                                                     |
| Warranty period                                                                 | 5 a                                                                                                                                     |
| product function / is supported / identification link                           | Yes; acc. to IEC 61406-1:2022                                                                                                           |
| <b>further information / internet links</b>                                     |                                                                                                                                         |
| 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>                                                                   |

## security information

### security information

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## Approvals / Certificates

### General Product Approval

### EMV



[Declaration of Conformity](#)



[KC](#)

### For use in hazardous locations

### Test Certificates



[FM](#)



[CCC-Ex](#)

[Special Test Certificate](#)

### Environment

### Industrial Communication

[Confirmation](#)



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