



SCALANCE XC116, Unmanaged IE switch, 16x 10/100 Mbit/s RJ45 ports, LED diagnostics, error-signaling contact with set pushbutton, redundant power supply  
Manual available as a download .

| product type designation                                       |                                                                                                     |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| product brand name                                             | SCALANCE                                                                                            |
| product type designation                                       | XC116                                                                                               |
| Technical Product Detail Page                                  | <a href="https://i.siemens.com/1P6GK5116-0BA00-2AC2">https://i.siemens.com/1P6GK5116-0BA00-2AC2</a> |
| transfer rate                                                  |                                                                                                     |
| transfer rate                                                  | 10, 100 Mbit/s                                                                                      |
| interfaces / for communication / integrated                    |                                                                                                     |
| number of electrical connections                               |                                                                                                     |
| • for network components or terminal equipment                 | 16; RJ45                                                                                            |
| interfaces / other                                             |                                                                                                     |
| number of electrical connections                               |                                                                                                     |
| • for signaling contact                                        | 1                                                                                                   |
| • for power supply                                             | 1                                                                                                   |
| type of electrical connection                                  |                                                                                                     |
| • for signaling contact                                        | 2-pole terminal block                                                                               |
| • for power supply                                             | 4-pole terminal block                                                                               |
| operating voltage / of the signaling contacts                  |                                                                                                     |
| • at DC / rated value                                          | 24 V                                                                                                |
| operational current / of the signaling contacts                |                                                                                                     |
| • at DC / maximum                                              | 0.1 A                                                                                               |
| 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                             | 5.4 W                                                                                               |
| • supply voltage / 1 / voltage range                           | 9.6 ... 31.2                                                                                        |
| • consumed current / 1 / maximum                               | 0.45 A                                                                                              |
| • type of electrical connection / 1 / for power supply         | 4-pole terminal block                                                                               |
| • product component / 1 / fusing at power supply input         | Yes                                                                                                 |
| • fuse protection type / 1 / at input for supply voltage       | 2,5 A / 125 V                                                                                       |
| ambient conditions                                             |                                                                                                     |
| ambient temperature                                            |                                                                                                     |
| • during operation                                             | -40 ... +70 °C                                                                                      |
| • during storage                                               | -40 ... +85 °C                                                                                      |
| • during transport                                             | -40 ... +85 °C                                                                                      |
| relative humidity                                              |                                                                                                     |
| • at 25 °C / without condensation / during operation / maximum | 95 %                                                                                                |
| protection class IP                                            | IP20                                                                                                |

|                                                                          |                                                         |
|--------------------------------------------------------------------------|---------------------------------------------------------|
| <b>design, dimensions and weights</b>                                    |                                                         |
| design                                                                   | compact                                                 |
| width                                                                    | 120 mm                                                  |
| height                                                                   | 147 mm                                                  |
| depth                                                                    | 125 mm                                                  |
| net weight                                                               | 0.775 kg                                                |
| material / of the enclosure                                              | Polycarbonate (PC-GF10)                                 |
| fastening method                                                         |                                                         |
| • 35 mm DIN-rail mounting                                                | Yes                                                     |
| • wall mounting                                                          | Yes                                                     |
| • S7-300 rail mounting                                                   | Yes                                                     |
| • S7-1500 rail mounting                                                  | Yes                                                     |
| <b>product features, product functions, product components / general</b> |                                                         |
| number of automatically learnable MAC addresses                          | 2048                                                    |
| <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                                                     |
| • EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1        | Yes                                                     |
| • cULus approval                                                         | Yes                                                     |
| • KC approval                                                            | Yes                                                     |
| • Regulatory Compliance Mark (RCM)                                       | Yes                                                     |
| standard                                                                 |                                                         |
| • for EMC interference emission                                          | EN 61000-6-4 (Class B)                                  |
| • 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 / marine classification</b>      |                                                         |
| certificate of suitability / shipbuilding approval / note                | Certifications marked 'No' are currently under renewal. |
| Marine classification association                                        |                                                         |
| • American Bureau of Shipping Europe Ltd. (ABS)                          | No                                                      |
| • French marine classification society (BV)                              | No                                                      |
| • Chinese Classification Society (CCS)                                   | No                                                      |
| • Det Norske Veritas (DNV)                                               | No                                                      |
| • Korean Register of Shipping (KRS)                                      | No                                                      |
| • Lloyds Register of Shipping (LRS)                                      | No                                                      |
| • Nippon Kaiji Kyokai (NK)                                               | No                                                      |

- Polski Rejestr Statkow (PRS)
- Royal Institution of Naval Architects (RINA)

No  
Yes

#### standards, specifications, approvals / Environmental Product Declaration

|                                   |              |
|-----------------------------------|--------------|
| Environmental Product Declaration | Yes          |
| global warming potential [CO2 eq] |              |
| • total                           | 441.1 kg     |
| • during manufacturing            | 47.67 kg     |
| • during operation                | 392.81999 kg |
| • after end of life               | 0.57 kg      |

#### product functions / general

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| laser protection class                                | LED Class 1                   |
| 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

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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#### Approvals / Certificates

|                                                            |           |
|------------------------------------------------------------|-----------|
| Environmental Product Declaration                          |           |
| • global warming potential [CO2 eq] / during manufacturing | 47.67 kg  |
| • global warming potential [CO2 eq] / during operation     | 392.82 kg |
| • global warming potential [CO2 eq] / after end of life    | 0.57 kg   |
| • global warming potential [CO2 eq] / total                | 441.1 kg  |

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|



[China RoHS](#)

[Declaration of Con-  
formity](#)

[Manufacturer Declara-  
tion](#)

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



[China RoHS](#)



|                                |                      |
|--------------------------------|----------------------|
| For use in hazardous locations | Maritime application |
|--------------------------------|----------------------|



[FM](#)

[CCC-Ex](#)



Maritime application

Industrial Commu-  
nication



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last modified:

4/23/2026