



SCALANCE XP216 (EIP), managed IE switch, 12x 10/100 Mbit/s IEC 62443-4-2 certified; M12 ports, 4x 10/100/1000 Mbit/s M12 ports IP65, LED diagnostics, error signaling contact, redundant power supply, Ethernet/IP, network management, including dust caps, including electronic manual on CD-ROM, C-PLUG optional.

| product type designation                                                     |                                                                                                     |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| product brand name                                                           | SCALANCE                                                                                            |
| product type designation                                                     | XP216 (E/IP def.)                                                                                   |
| Technical Product Detail Page                                                | <a href="https://i.siemens.com/1P6GK5216-0HA00-2TS6">https://i.siemens.com/1P6GK5216-0HA00-2TS6</a> |
| transfer rate                                                                |                                                                                                     |
| transfer rate                                                                | 10, 100, 1000 Mbit/s                                                                                |
| interfaces / for communication / integrated                                  |                                                                                                     |
| number of electrical connections                                             |                                                                                                     |
| • for network components or terminal equipment                               | 16; M12                                                                                             |
| number of 10/100 Mbit/s M12-ports (D-coded)                                  | 12                                                                                                  |
| number of 10/100/1000 Mbit/s M12-ports (X-coded)                             | 4                                                                                                   |
| interfaces / other                                                           |                                                                                                     |
| number of electrical connections                                             |                                                                                                     |
| • for operator console                                                       | 1                                                                                                   |
| • for signaling contact                                                      | 1                                                                                                   |
| • for power supply                                                           | 2                                                                                                   |
| type of electrical connection                                                |                                                                                                     |
| • for operator console                                                       | 5-pole M12 socket (A-coded)                                                                         |
| • for signaling contact                                                      | 5-pole M12 plug (B-coded)                                                                           |
| • for power supply                                                           | 4-pole M12 plug (A-coded)                                                                           |
| design of the removable storage                                              |                                                                                                     |
| • C-PLUG                                                                     | Yes                                                                                                 |
| product function / device replacement with replacement of the storage medium | Yes                                                                                                 |
| 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                                                                                                 |
| type of voltage / 1 / of the supply voltage                                  | DC                                                                                                  |
| • supply voltage / 1 / rated value                                           | 24 V                                                                                                |
| • power loss [W] / 1 / rated value                                           | 8 W                                                                                                 |
| • consumed current / 1 / at rated supply voltage / maximum                   | 0.4 A                                                                                               |
| • supply voltage / 1 / voltage range                                         | 19.2 ... 28.8                                                                                       |
| • consumed current / 1 / maximum                                             | 0.335 A                                                                                             |
| • type of electrical connection / 1 / for power supply                       | 4-pole M12 plug (A-coded)                                                                           |
| • product component / 1 / fusing at power supply input                       | Yes                                                                                                 |
| • fuse protection type / 1 / at input for supply voltage                     | 5 A / 60 V                                                                                          |

| ambient conditions                                                              |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| ambient temperature                                                             |                                                 |
| • during operation                                                              | -40 ... +70 °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                                                             | IP65                                            |
| design, dimensions and weights                                                  |                                                 |
| design                                                                          | compact                                         |
| width                                                                           | 280 mm                                          |
| height                                                                          | 200 mm                                          |
| depth                                                                           | 49 mm                                           |
| net weight                                                                      | 2.5 kg                                          |
| material / of the enclosure                                                     | Aluminum                                        |
| fastening method                                                                | ET200pro module carrier                         |
| • wall mounting                                                                 | Yes                                             |
| product features, product functions, product components / general               |                                                 |
| cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s | 50                                              |
| cascading in cases of star topology                                             | any (depending only on signal propagation time) |
| product function                                                                |                                                 |
| • QoS according to DSCP                                                         | Yes                                             |
| product feature                                                                 |                                                 |
| • Cut Through switching method                                                  | No                                              |
| • Store & Forward switching method                                              | Yes                                             |
| product functions / management, configuration, engineering                      |                                                 |
| product function                                                                |                                                 |
| • CLI                                                                           | Yes                                             |
| • web-based management                                                          | Yes                                             |
| • MIB support                                                                   | Yes                                             |
| • TRAPs via email                                                               | Yes                                             |
| • configuration with STEP 7                                                     | Yes                                             |
| • RMON                                                                          | Yes                                             |
| • SMTP server                                                                   | No                                              |
| • port mirroring                                                                | Yes                                             |
| • multiport mirroring                                                           | Yes                                             |
| • CoS                                                                           | Yes                                             |
| • with IRT / PROFINET IO switch                                                 | No                                              |
| • PROFINET IO diagnosis                                                         | Yes                                             |
| • switch-managed                                                                | Yes                                             |
| PROFINET conformity class                                                       | B                                               |
| network load class / according to PROFINET                                      | II                                              |
| telegram length / for Ethernet / maximum                                        | 1518 byte                                       |
| protocol / is supported                                                         |                                                 |
| • Telnet                                                                        | Yes                                             |
| • HTTP                                                                          | Yes                                             |
| • HTTPS                                                                         | Yes                                             |
| • TFTP                                                                          | Yes                                             |
| • SFTP                                                                          | Yes                                             |
| • BOOTP                                                                         | Yes                                             |
| • GMRP                                                                          | Yes                                             |
| • DCP                                                                           | Yes                                             |
| • LLDP                                                                          | Yes                                             |
| • EtherNet/IP                                                                   | Yes                                             |
| • SNMP v1                                                                       | Yes                                             |
| • SNMP v2                                                                       | Yes                                             |
| • SNMP v3                                                                       | 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          |
| <b>product functions / diagnostics</b>                                                                                  |              |
| 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          |
| <b>product functions / VLAN</b>                                                                                         |              |
| product function                                                                                                        |              |
| <ul style="list-style-type: none"> <li>VLAN - port based</li> </ul>                                                     | Yes          |
| <ul style="list-style-type: none"> <li>VLAN - protocol-based</li> </ul>                                                 | No           |
| <ul style="list-style-type: none"> <li>VLAN - IP-based</li> </ul>                                                       | No           |
| number of VLANs / maximum                                                                                               | 257          |
| number of VLANs - dynamic / maximum                                                                                     | 257          |
| number of VLANs / at ring redundancy (HRP; MRP; standby link)                                                           | 257          |
| <b>product functions / DHCP</b>                                                                                         |              |
| product function                                                                                                        |              |
| <ul style="list-style-type: none"> <li>DHCP server</li> </ul>                                                           | Yes          |
| <ul style="list-style-type: none"> <li>DHCP client</li> </ul>                                                           | Yes          |
| <ul style="list-style-type: none"> <li>DHCP Option 82</li> </ul>                                                        | Yes          |
| <ul style="list-style-type: none"> <li>DHCP Option 66</li> </ul>                                                        | Yes          |
| <ul style="list-style-type: none"> <li>DHCP Option 67</li> </ul>                                                        | Yes          |
| <b>product functions / redundancy</b>                                                                                   |              |
| protocol / is supported / Media Redundancy Protocol (MRP)                                                               | Yes          |
| product function                                                                                                        |              |
| <ul style="list-style-type: none"> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>               | Yes          |
| <ul style="list-style-type: none"> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>                     | Yes; LC mode |
| <ul style="list-style-type: none"> <li>of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>          | Yes          |
| <ul style="list-style-type: none"> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul> | Yes          |
| <ul style="list-style-type: none"> <li>ring redundancy</li> </ul>                                                       | Yes          |
| <ul style="list-style-type: none"> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>          | Yes          |
| <ul style="list-style-type: none"> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>          | Yes          |
| <ul style="list-style-type: none"> <li>redundancy procedure STP</li> </ul>                                              | Yes          |
| <ul style="list-style-type: none"> <li>redundancy procedure RSTP</li> </ul>                                             | Yes          |
| <ul style="list-style-type: none"> <li>redundancy procedure RSTP+</li> </ul>                                            | Yes          |
| <ul style="list-style-type: none"> <li>redundancy procedure MSTP</li> </ul>                                             | Yes          |
| <ul style="list-style-type: none"> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>     | No           |
| <ul style="list-style-type: none"> <li>passive listening</li> </ul>                                                     | Yes          |
| <b>system modification during operation</b>                                                                             |              |
| product function / configuration in RUN via CiR/H-CiR                                                                   | Yes          |
| <b>product functions / security</b>                                                                                     |              |
| product function                                                                                                        |              |
| <ul style="list-style-type: none"> <li>IEEE 802.1x (radius)</li> </ul>                                                  | Yes          |
| <ul style="list-style-type: none"> <li>RADIUS client</li> </ul>                                                         | Yes          |
| <ul style="list-style-type: none"> <li>broadcast/multicast/unicast limiter</li> </ul>                                   | Yes          |
| <ul style="list-style-type: none"> <li>broadcast blocking</li> </ul>                                                    | Yes          |
| protocol / is supported                                                                                                 |              |
| <ul style="list-style-type: none"> <li>SSH</li> </ul>                                                                   | Yes          |
| <ul style="list-style-type: none"> <li>SSL</li> </ul>                                                                   | Yes          |

|                                                                                 |                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>product functions / time</b>                                                 |                                                                                                                                                                                                                                                                                                                       |
| product function                                                                |                                                                                                                                                                                                                                                                                                                       |
| • SICLOCK support                                                               | Yes                                                                                                                                                                                                                                                                                                                   |
| • NTP-client                                                                    | Yes                                                                                                                                                                                                                                                                                                                   |
| • SNTP client                                                                   | Yes                                                                                                                                                                                                                                                                                                                   |
| protocol / is supported                                                         |                                                                                                                                                                                                                                                                                                                       |
| • NTP                                                                           | Yes                                                                                                                                                                                                                                                                                                                   |
| • SNTP                                                                          | Yes                                                                                                                                                                                                                                                                                                                   |
| <b>standards, specifications, approvals</b>                                     |                                                                                                                                                                                                                                                                                                                       |
| certificate of suitability                                                      |                                                                                                                                                                                                                                                                                                                       |
| • CE marking                                                                    | Yes                                                                                                                                                                                                                                                                                                                   |
| • UKCA 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                                                                                                                                                                                                                                                                                                                   |
| resistance to air pollution / conformity according to ANSI/ISA-71.04            | Yes; G3                                                                                                                                                                                                                                                                                                               |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes                                                                                                                                                                                                                                                                                                                   |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |                                                                                                                                                                                                                                                                                                                       |
| Environmental Product Declaration                                               | Yes                                                                                                                                                                                                                                                                                                                   |
| global warming potential [CO2 eq]                                               |                                                                                                                                                                                                                                                                                                                       |
| • total                                                                         | 283.13999 kg                                                                                                                                                                                                                                                                                                          |
| • during manufacturing                                                          | 61.47 kg                                                                                                                                                                                                                                                                                                              |
| • during operation                                                              | 220.84 kg                                                                                                                                                                                                                                                                                                             |
| • after end of life                                                             | 0.27 kg                                                                                                                                                                                                                                                                                                               |
| <b>product functions / general</b>                                              |                                                                                                                                                                                                                                                                                                                       |
| MTBF                                                                            | 39 a                                                                                                                                                                                                                                                                                                                  |
| reference temperature / for MTBF determination                                  | 40 °C                                                                                                                                                                                                                                                                                                                 |
| 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>                                                                                                                                                                                                                                                 |
| • to website: Industry Online Support                                           | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                               |
| <b>security information</b>                                                     |                                                                                                                                                                                                                                                                                                                       |
| 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 [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). 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 <https://www.siemens.com/cert>. (V4.7)

## Approvals / Certificates

### Environmental Product Declaration

|                                                            |           |
|------------------------------------------------------------|-----------|
| • global warming potential [CO2 eq] / during manufacturing | 61.47 kg  |
| • global warming potential [CO2 eq] / during operation     | 220.84 kg |
| • global warming potential [CO2 eq] / after end of life    | 0.27 kg   |
| • global warming potential [CO2 eq] / total                | 283.14 kg |

### Environment

### General Product Approval



[Declaration of Conformity](#)

[China RoHS](#)

### General Product Approval



[Declaration of Conformity](#)



[TUEV](#)



[China RoHS](#)

### General Product Approval

### EMV

### For use in hazardous locations



[FM](#)

[CCC-Ex](#)

### Test Certificates

### Maritime application

[Type Test Certificates/Test Report](#)



[NK / Nippon Kaiji Kyokai](#)

### Maritime application

### Industrial Communication



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