

### product type designation



### SFP991-1LD

SIPLUS NET SCALANCE X SFP991-1LD based on 6GK5991-1AF00-8AA0 with conformal coating, -40...+85 °C, SCALANCE X accessory; SFP991-1LD; 1x 100 Mbps LC port, optical; single-mode optical up to max. 26 km

Technical Product Detail Page

<https://i.siemens.com/1P6AG1991-1AF00-7AA0>

### interfaces

|   |                          |
|---|--------------------------|
| number of electrical/optical connections / for network components or terminal equipment / maximum   | 1                        |
| number of optical interfaces / for network components or terminal equipment / maximum   | 1                        |
| number of 100 Mbit/s LC ports   | 1                        |
| design of the optical interface / for network components or terminal equipment  | LC                       |
| wavelength / of the optical interface   | 1310 nm; Single-mode     |
| connectable optical power relative to 1 mW  |                          |
| <ul style="list-style-type: none"> <li>of the transmitter output / minimum</li> <li>of the transmitter output / maximum</li> <li>of the receiver input / maximum</li> </ul> | -15 dB<br>-8 dB<br>-8 dB |
| optical sensitivity relating to 1 mW / of the receiver input / minimum  | -28 dB                   |
| attenuation factor / of the FOC transmission link / minimum necessary   | 0 dB                     |
| range / at the optical interface / depending on the optical fiber used  | 0 ... 26 km              |

### ambient conditions

|  |   |
|--|---|
| ambient temperature  |   |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>note</li> </ul> | -40 ... +85 °C<br>-40 ... +85 °C<br>-40 ... +85 °C<br>A maximum operating temperature of +85 °C is permissible for a duration of 16 hours |
| protection class IP  | IP20  |

### design, dimensions and weights

|                  |            |
|------------------|------------|
| design           | SFP Module |
| width            | 14 mm      |
| height           | 9 mm       |
| depth            | 57 mm      |
| net weight       | 0.01 kg    |
| fastening method | latched    |

### standards, specifications, approvals

|   |  |
|---|--|
| standard  |  |
| <ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul> | EN 61000-6-4:2007 (Class A)<br>EN 61000-6-2:2005 |
| certificate of suitability  | EN 61000-6-2:2005, EN 61000-6-4:2007             |

|              |       |
|--------------|-------|
| • CE marking | Yes   |
| MTBF         | 490 a |

**further information / internet links**


|   |   |
|---|---|
| internet link   |   |
| <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

**security information**

|                      |   |
|----------------------|---|
| security information | <p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p> |
|----------------------|---|

**Approvals / Certificates**

**General Product Approval**

|  |   |   |                            |   |                            |
|--|---|---|----------------------------|---|----------------------------|
| <a href="#">Manufacturer Declaration</a> |  | <br>EG-Konf. | <a href="#">China RoHS</a> |  | <a href="#">China RoHS</a> |
|--|---|---|----------------------------|---|----------------------------|

**General Product Approval**      **EMV**      **For use in hazardous locations**

|   |   |  |                        |   |  |
|---|---|--|------------------------|---|--|
| <br>EG-Konf. |  | <br>RCM | <a href="#">CCC-Ex</a> | <br>ATEX | <br>IECEX |
|---|---|--|------------------------|---|--|

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