

### product type designation



### SIPLUS NET SCALANCE X SFP992-1LD

SIPLUS NET SCALANCE X SFP992-1LD based on 6GK5992-1AM00-8AA0 with conformal coating, -40...+85 °C, SCALANCE X accessory; plug-in transceiver SFP992-1LD; 1x 1000 Mbps LC port, optical; single-mode optical up to max. 10 km

| 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 1000 Mbit/s LC ports / for single mode (LD) / integrated                                                                                                                                                     | 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> | -9.5 dB<br>-3 dB<br>-3 dB                                                                                                                 |
| optical sensitivity relating to 1 mW / of the receiver input / minimum                                                                                                                                                 | -19 dB                                                                                                                                    |
| attenuation factor / of the FOC transmission link / minimum necessary                                                                                                                                                  | 0 dB                                                                                                                                      |
| range / at the optical interface / depending on the optical fiber used                                                                                                                                                 | 0 ... 10 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 <ul style="list-style-type: none"> <li>CE marking</li> </ul>                                                                                                                                | EN 61000-6-2:2005, EN 61000-6-4:2007<br>Yes                                                                                               |

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| MTBF                                                                                | 600 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                       |                                                                                     |
| reference code                                                                      | KEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                     |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                                                                                     |
|                                                                                     | <ul style="list-style-type: none"><li><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></li><li><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></li><li><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></li><li><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></li><li><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></li><li><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></li><li><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |                                                                                     |
| 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                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EMV                                                                                   | For use in hazardous locations                                                      |
| <a href="#">Miscellaneous</a>                                                       | <a href="#">Manufacturer Declaration</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |  |
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| For use in hazardous locations                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                                                                                     |
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last modified: 8/21/2024 