

Data sheet

6GK5993-1AV00-8AA0

product type designation



SFP993-1LH

SCALANCE X accessory; Plug-in transceiver SFP993-1LH; 1x 10000 Mbit/s LC port, optical; single-mode optical up to max. 40 km.

Technical Product Detail Page

<https://i.siemens.com/1P6GK5993-1AV00-8AA0>

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 10 Gbit/s LC ports (LX) | 1 |
| design of the optical interface / for network components or terminal equipment | LC |
| wavelength / of the optical interface | 1550 nm; Single-mode |
| connectable optical power relative to 1 mW | |
| • of the transmitter output / minimum | -4.7 dB |
| • of the transmitter output / maximum | 4 dB |
| • of the receiver input / maximum | 0.5 dB |
| optical sensitivity relating to 1 mW / of the receiver input / minimum | -14.1 dB |
| attenuation factor / of the FOC transmission link / minimum necessary | 4.5 dB |
| range / at the optical interface / depending on the optical fiber used | 0 ... 40 km |
| transmission method / for connection type 1 | 10GBASE-ER |

ambient conditions

| | |
|--|----------------|
| ambient temperature | |
| • during operation | -40 ... +85 °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 |

design, dimensions and weights

| | |
|------------------|------------|
| design | SFP Module |
| width | 14 mm |
| height | 9 mm |
| depth | 57 mm |
| net weight | 0.02 kg |
| fastening method | latched |

standards, specifications, approvals

| | |
|--------------------------------|---|
| standard | |
| • for safety / from CSA and UL | UL 62368-1 and CAN/CSA C22.2 No. 62368-1:19 |
| • for emitted interference | EN 61000-6-4 (Class A) |

| | |
|---|---|
| • for interference immunity | EN 61000-6-2 |
| certificate of suitability | EN 61000-6-2:2005, EN 61000-6-4:2007 |
| • CE marking | Yes |
| • C-Tick | Yes |
| • KC approval | No |
| • CCC / for hazardous zone according to GB standard | Yes; GB3836.1, GB3836.8 |
| • CCC / for hazardous zone according to GB standard / as marking | Ex nA IIC T4 Gc |
| • E1 approval | No |
| Marine classification association | |
| • French marine classification society (BV) | Yes |
| MTBF | 300 a |
| standards, specifications, approvals / Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| • total | 39.79 kg |
| • during manufacturing | 1.7 kg |
| • during operation | 38.08 kg |
| • after end of life | 0.01 kg |
| further information / internet links | |
| internet link | |
| • to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| • to website: Industrial communication | https://www.siemens.com/simatic-net |
| • to web page: SiePortal | https://sieportal.siemens.com/ |
| • to website: Image database | https://www.automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | https://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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| Approvals / Certificates | |
| General Product Approval | |



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval

For use in hazardous locations

Maritime application



FM

[CCC-Ex](#)





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