

## Data sheet

## 6GK5998-3GS00-2AC2

product brand name  
product type designation



SCALANCE

LPE9403

SCALANCE LPE9403; Local Processing Engine; 64-bit ARMv8 (4-core); 4 GB RAM; 40 GB eMMC(pSLC); Debian Linux; 3x 10/100/1000 Mbps RJ45; 1x 100/1000 Mbps SFP; contains 1 combo port; 1xUSB3.0; CLP slot; diagnostics LED; redundant power supply; assembly: DIN rail/S7 mounting rail .

product brand name  
Technical Product Detail Page

SCALANCE

<https://i.siemens.com/1P6GK5998-3GS00-2AC2>

### hardware configuration

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| design of the processor                               | 64Bit ARMv8 A53, 4 core |
| processor clock frequency                             | 1.6 GHz                 |
| design of the drive/storage medium / solid-state disk | Yes; eMMC (pSLC)        |
| storage capacity / on solid-state disk                | 38 Gbyte                |
| storage capacity / of the RAM                         | 4 Gbyte                 |
| product component / operating system / docker         | Yes                     |

### transfer rate

|               |                      |
|---------------|----------------------|
| transfer rate | 10, 100, 1000 Mbit/s |
|---------------|----------------------|

### interfaces / for communication / integrated

|                                                                             |                                               |
|-----------------------------------------------------------------------------|-----------------------------------------------|
| number of 10/100/1000 Mbit/s RJ45 ports / integrated / with securing collar | 3                                             |
| number of combo ports / with RJ45 interface for optical plug-in transceiver | 1; 100 or 1000 Mbit/s SFP plug-in transceiver |

### interfaces / other

|                                         |     |
|-----------------------------------------|-----|
| number of interfaces / according to USB | 2   |
| number of USB-A ports                   | 1   |
| number of USB-B ports                   | 1   |
| design of the removable storage / CLP   | Yes |

### 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                            | 16 W                  |
| power loss [W] / at DC / at 24 V / typical                  | 10.56 W               |
| consumed current / at DC / at 24 V / typical                | 0.4 A                 |
| supply voltage / 1 / voltage range                          | 19.2 ... 28.8         |
| consumed current / 1 / maximum                              | 0.66 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      | 3,15 A / 125 V        |

### ambient conditions

|                     |                |
|---------------------|----------------|
| ambient temperature |                |
| • during operation  | -40 ... +60 °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                                                                            | 134 mm                                                       |
| height                                                                           | 147 mm                                                       |
| depth                                                                            | 127 mm                                                       |
| net weight                                                                       | 1.6 kg                                                       |
| fastening method                                                                 |                                                              |
| • 35 mm DIN-rail mounting                                                        | Yes                                                          |
| • wall mounting                                                                  | Yes                                                          |
| • S7-300 rail mounting                                                           | Yes                                                          |
| • S7-1500 rail mounting                                                          | Yes                                                          |
| <b>product functions / management, configuration, engineering</b>                |                                                              |
| protocol / is supported                                                          |                                                              |
| • SSH                                                                            | Yes                                                          |
| • HTTP                                                                           | Yes                                                          |
| • HTTPS                                                                          | Yes                                                          |
| • FTP                                                                            | Yes                                                          |
| • LLDP                                                                           | Yes                                                          |
| • DCP                                                                            | Yes                                                          |
| • NTP                                                                            | Yes                                                          |
| • SNMP v2                                                                        | Yes                                                          |
| • SNMP v3                                                                        | Yes                                                          |
| • SNTP                                                                           | Yes                                                          |
| • SSL                                                                            | Yes                                                          |
| product function / is supported / identification link                            | Yes; acc. to IEC 61406-1:2022                                |
| <b>product functions / diagnostics</b>                                           |                                                              |
| product function                                                                 |                                                              |
| • SysLog                                                                         | Yes                                                          |
| • backup device configuration                                                    | Yes                                                          |
| • user administration                                                            | Yes                                                          |
| • port diagnostics                                                               | Yes                                                          |
| • CLI                                                                            | Yes                                                          |
| • web-based management                                                           | Yes                                                          |
| • MIB support                                                                    | Yes                                                          |
| • PROFINET IO diagnosis                                                          | Yes                                                          |
| • DHCP client                                                                    | Yes                                                          |
| <b>standards, specifications, approvals</b>                                      |                                                              |
| standard                                                                         |                                                              |
| • for emitted interference                                                       | EN 61000-6-4 (Class A)                                       |
| • for interference immunity                                                      | EN 61000-6-2                                                 |
| MTBF                                                                             | 29 a                                                         |
| <b>standards, specifications, approvals / CE</b>                                 |                                                              |
| certificate of suitability / CE marking                                          | Yes                                                          |
| <b>standards, specifications, approvals / other</b>                              |                                                              |
| • certificate of suitability / C-Tick                                            | Yes                                                          |
| • certificate of suitability / KC approval                                       | Yes                                                          |
| • certificate of suitability / ATEX                                              | Yes; EN 60079-0, EN 60079-15                                 |
| • certificate of suitability / for ATEX / as marking                             | II 3 G Ex nA IIC T4 Gc                                       |
| • certificate of suitability / for ATEX / as certificate                         | DEKRA ATEX0025 X                                             |
| • certificate of suitability / IECEx                                             | Yes; IEC 60079-0, IEC 60079-7                                |
| • certificate of suitability / for IECEx / as marking                            | Ex ec IICT4 Gc                                               |
| • certificate of suitability / for IECEx / as certificate                        | IECEx DEK 18.0017X                                           |
| • certificate of suitability / CCC / for hazardous zone according to GB standard | Yes; CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 |

- certificate of suitability / CCC / for hazardous zone according to GB standard / as marking
- certificate of suitability / for cULus HazLoc / as marking
- certificate of suitability / for cULus HazLoc / as File Nr.
- certificate of suitability / for FM / as marking
- certificate of suitability / for FM / as certificate
- certificate of suitability / railway application in accordance with EN 50121-4
- certificate of suitability / Regulatory Compliance Mark (RCM)
- certificate of suitability / for UL 61010-2-201 / as File Nr.
- certificate of suitability / EAC approval
- type of certification / BIS

E240480

CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4

E240480

CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C +60 °C  
FM19US0167X

Yes

Yes

E85972

Yes

Yes; R-41061751

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

|                                   |           |
|-----------------------------------|-----------|
| Environmental Product Declaration | Yes       |
| global warming potential [CO2 eq] |           |
| • total                           | 647.08 kg |
| • during manufacturing            | 45.5 kg   |
| • during operation                | 601 kg    |
| • after end of life               | 0.401 kg  |

#### 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

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <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) |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Approvals / Certificates

##### General Product Approval



[BIS CRS](#)



[China RoHS](#)

|                          |                                |
|--------------------------|--------------------------------|
| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|



[FM](#)



[CCC-Ex](#)



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