SIEMENS

Data sheet 6GK5998-3GS01-2AC2

product brand name	SCALANCE
product type designation	LPE9413



SCALANCE LPE9413 Industrial Edge Local Processing Engine; 64-bit ARMv8 (4-core); 4 GB RAM; 40 GB eMMC(pSLC); 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	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5998-3GS01-2AC2
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 Gibyte
storage capacity / of the RAM	4 Gibyte
operating system / pre-installed	Siemens Industrial Edge
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

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● 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	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
product functions / management, configuration, engineering	
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function	
● backup device configuration	Yes
● user administration	Yes
● port diagnostics	Yes
● PROFINET IO diagnosis	Yes
standards, specifications, approvals	
standard	
● for emitted interference	EN 61000-6-4 (Class A)
● for interference immunity	EN 61000-6-2
MTBF	29 a
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / other	
● 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	E240480
● certificate of suitability / for cULus HazLoc / as marking	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4
● certificate of suitability / for cULus HazLoc / as File Nr.	E240480
● certificate of suitability / for FM / as marking	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C +60 °C
● certificate of suitability / for FM / as certificate	FM19US0167X
● certificate of suitability / railway application in accordance with EN 50121-4	Yes
● certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
● certificate of suitability / for UL 61010-2-201 / as File Nr.	E85972
● certificate of suitability / EAC approval	Yes
● type of certification / BIS	Yes; R-41061751
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	646.79 kg

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● during manufacturing	45.48 kg
● during operation	600.91 kg
● after end of life	0.4 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

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. 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

General Product Approval

EG-Konf. | RCM | BIS CRS | EG-Konf. | China RoHS | UKCA

For use in hazardous locations | **Environment**

IECEx | ATEX | FM | ATEX | CCC-Ex | EPD

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