SIEMENS

Data sheet

6GK5786-2FE00-0AA0

Product type designation



SCALANCE W786-2 SFP

IWLAN Access Point, SCALANCE W786-2 SFP, 2 radios, 6 R-SMA antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 2x SFP 1 Gbit/s switches, redundant 24 V DC, terminal block, 110 - 230 V AC via PS791-2AC IP65, -40..+60 °C, plug slot, Temperature range dependent on SFP WPA2/802.11i/e, observe national approvals! CERT ID: EAPN-W2-SFP-E3 includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, for operation outside of USA/Israel

Transmission rate	
Transfer rate	
with WLAN / maximum	450 Mbit/s
• for Industrial Ethernet	1000 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	1000 Mbit/s
• maximum	1000 Mbit/s

Interfaces	
Number of electrical connections	
• for power supply	1
for redundant voltage supply	0
Type of electrical connection	
• for power supply	2-pole connector (24 V DC) or optionally available power supply adapter (4-pole 24 V DC or 3-pole 110 to 230 V AC)
Number of optical interfaces	
• for fiber optic cable / at 1000 Mbit/s	2
Design of the optical interface	
• for fiber optic cable / at 1000 Mbit/s	SFP slot

design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
Interfaces / wireless	
Number of radio cards / permanently installed	2
Transmission mode / for multiple input multiple output (MIMO)	3x3
Number of spatial streams	3
Number of electrical connections / for external antenna(s)	6
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted	No
directly on device	
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1	
• from terminal block	19.2 V
Supply voltage / 2	
• from terminal block	28.8 V
Supply voltage	
 from optional integrable power supply 	
— at AC	100 240 V
— at DC	12 24 V
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +60 °C
during storage	-40 +85 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	100 %
during operation / maximum	
Ambient condition / for operation	When using the power supply 100 to 240 V AC, an operating temperature of -40 °C to +60 °C is permissible
Protection class IP	IP65
Design, dimensions and weight	
Width / of the enclosure / without antenna	251 mm
Height / of the enclosure / without antenna	251 mm
Depth / of the enclosure / without antenna	72 mm
Net weight	2.24 kg
Mounting type	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

Wireless frequencies Operating frequency ● for WLAN in 2.4 GHz frequency band 2.41 ... 2.48 GHz ● for WLAN in 5 GHz frequency band 4.9 ... 5.8 GHz

Product properties, functions, components / genera	l
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
Product function	
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	2
Product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
Number of iREF-capable radio modules	2
Product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

Product functions / management, configuration	
8	
Yes	
No	
No	
Yes	
Yes	
Yes	
Yes	

• TFTP	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location designation 	Yes
Product functions / Diagnosis	
Product function	
 PROFINET IO diagnosis 	Yes
Link Check	No
• connection monitoring IP-Alive	No
 localization via Aeroscout 	Yes
SysLog	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / VLAN	
Product function	
function VLAN with IWLAN	Yes
Product functions / DHCP	
Product function	Yes
DHCP client	
• in Client Mode / DHCP server via LAN	Yes
DHCP Option 82	Yes
Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
Product functions / Security	
Product function	
• ACL - MAC-based	Yes
 Management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	No
• access protection according to IEEE802.11i	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes

Destace / is supported	
Protocol / is supported	Van
• SSH	Yes
• RADIUS	Yes
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC Time	Yes
Standards, specifications, approvals	
Standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1
• for hazardous zone / from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
Certificate of suitability	
EC declaration of conformity	Yes
CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
 Railway application in accordance with EN 50155 	No
 Railway application in accordance with EN 50121-4 	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	Yes
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	No
Power-over-Ethernet according to IEEE802.3at	No
for type 2	
Standard for wireless communication	
● IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
● IEEE 802.11n	Yes

Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
Bureau Veritas (BV)	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes

Accessories

accessories

24 V DC screw terminal included in scope of delivery

Further Information / Internet Links

Internet-Link

• to website: TIA Selection Tool

• to the website: IWLAN

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/iwlan

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit

http://support.automation.siemens.com. (V3.4)

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