SIEMENS

Data sheet

6GK5788-2FC00-0AC0



IWLAN access point, SCALANCE W788-2 RJ45, 2 radios, 6 R-SMA antenna connections, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross 450 Mbit/s per radio, 1 x RF45 (max. 1 Gbit/s), POE 2 x 24 V DC, IP30 (-20 to + 60 °C), WPA2/802.11I/e, signaling contact Observe national approval! (Cert. ID: RAPN-W2-RJ-E3) includes: MPCIE-R1-ABGN-U3 Scope of delivery: Manuals on CD, de/en 2 x terminal block, only for operation in Israel.

450 Mbit/s
10, 100, 1000 Mbit/s
10 Mbit/s
1000 Mbit/s

Interfaces	
Number of electrical connections	
 for network components or terminal equipment 	1
for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
 for network components or terminal equipment 	RJ45 socket
for power supply	4-pole screw terminal, PoE
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	6
antenna(s)	
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted directly on device	Yes
Signal inputs/outputs	
Number of digital inputs	1
Number of digital outputs	1.
Type of electrical connection / at the digital inputs/outputs	4-pole screw terminal
Signal range / at digital input	24 V DC, safety extra-low voltage
Signal range / at digital output	24 V DC / 1 A
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 Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet acc. to IEEE802.3at for type 2 	50 V
Consumed current	
• at DC / at 24 V / typical	0.63 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.3 A
Power loss [W]	
• at DC / at 24 V / typical	15 W
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	10.7 W
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	15 W
Ambient conditions	
Ambient temperature	
during operation	-20 +60 °C

during storage	-40 +85 °C
 during transport 	-40 +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W788-x or W748-x product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
Protection class IP	IP30

Design, dimensions and weights	
Width / of the enclosure / without antenna	200 mm
Height / of the enclosure / without antenna	158 mm
Depth / of the enclosure / without antenna	79 mm
Net weight	1.7 kg
Mounting type	For 35 mm DIN rail mounting an additional mounting adapter is required
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• 35 mm DIN rail mounting	Yes
wall mounting	Yes

Radio frequencies

Operating frequency

• for WLAN in 2.4 GHz frequency band 2.41 ... 2.48 GHz; depending on the country approvals

• for WLAN in 5 GHz frequency band 4.9 ... 5.8 GHz; depending on the country approvals

Product features, product functions, product components / general		
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, engineering		
Number of manageable IP addresses / in client	8	
Product function		

• CLI	Yes
web-based management	Yes
MIB support	Yes
TRAPs via email	Yes
Configuration with STEP 7	Yes
 configuration with STEP 7 in the TIA Portal 	Yes
operation with IWLAN controller	No
operation with Enterasys WLAN controller	No
forced roaming on IP down with IWLAN	Yes
 forced roaming on link down with IWLAN 	Yes
• WDS	Yes
Protocol / is supported	
Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	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 / Diagnostics	
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	

DHCP client	Yes
DHCP server	Yes
DHCP Option 82	Yes

Yes

Product functions /	redundancy
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Protoco	l / i	s su	ippo	orted
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• STP/RSTP Yes

• MSTP Yes

• RSTP Yes

Product functions / Security

Product function

 ACL - MAC-based 	

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

Protocol / is supported

• SSH Yes

• RADIUS Yes

Product functions / time

Protocol / is supported

• NTP Yes

• SNTP Yes

• SIMATIC time synchronization (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,

No

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

 Railway application in accordance with EN 50121-4 	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
 Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
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	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
Bureau Veritas (BV)	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	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 and screw terminal for digital input and output included in the scope of delivery

Further information / Internet-Links

Internet-Link

• to website: TIA Selection Tool http://www.siemens.com/tia-selection-tool

to the website: IWLAN
 to website: Industry Mall
 https://mall.industry.siemens.com

• to website: Information and Download Center http://www.siemens.com/industry/infocenter

• to website: Image database http://automation.siemens.com/bilddb

• to website: CAx Download Manager http://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 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. Thirdparty 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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