SIEMENS

Data sheet

6GK5788-1FC00-0AB0

product type designation



W788-1 RJ45 (USA)

product announced for discontinuation; IWLAN Access Point, SCALANCE W788-1 RJ45, 1 radio, 3 R-SMA antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbps per radio, 1x RJ45 max. 1 Gbps, PoE, redundant 24 V DC, joint block, IP30, -20...+60 °C, plug slot, WPA2/802.11i/e, signaling contact observe national approvals! cert ID: RAPN-W1-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: manuals on CD-ROM, German/English, 2x joint blocks; only for operation in the USA.

transfer rate	
transfer rate	
with WLAN / maximum	450 Mbit/s
for Industrial Ethernet	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	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
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	3
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	

 from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 	48 V
• from Power-over-Ethernet according to IEEE802.3at for	50 V
type 2	
consumed current	0.45.0
at DC / at 24 V / typical with Dower ever Ethernet according to IEEE 202 3at for	0.45 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A
power loss [W]	
at DC / at 24 V / typical	10.7 W
supply voltage / 1	
• from terminal block	19.2 V
supply voltage / 2	22.24
from terminal block	28.8 V
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
fastening method	For 35 mm DIN rail mounting an additional mounting adapter is required
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
35 mm top hat 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 / gen	7.11
product function / Access Point Mode	Yes
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product function / client Mode	Yes
number of SSIDs	8
product function	Vaca Only in combination with the IVEV PLLICATION IS
• 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	No
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
number of iREF-capable radio modules	1
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
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 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	100
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	165
product function ● function VLAN with IWLAN	Yes
product functions / DHCP	ies
product function	Ver
DHCP client	Yes
DHCP server PHOR O. I'. 000	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
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	
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standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC,
	T4, FM16US0205X
certificate of suitability	Von
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 	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
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (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
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX
• from CSA and UL	0145X 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 E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
	Ex nA IIC T4 Gc
• as marking	LATIATIO 14 GC
accessories	24 V DC core v to mind andto-life this is a
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 web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
to the website: WYEAR to website: Industry Mall	https://mall.industry.siemens.com
to website: Industry Mail to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
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to website: CAx-Download-Manager to website: Industry Opline Support	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information	Ciamana pravidas products and additional title and title
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. 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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