SIEMENS

Data sheet

6GK5788-1FC00-0AA0

product type designation



W788-1 RJ45

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; for operation outside of USA/Israel

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	

ype of voltage / of the supply voltage * from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3at for type 2 consumed current * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * power loss [W] * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * at DC / at 24 V / typical * from terminal block * supply voltage / 1 * from terminal block * supply voltage / 2 * from terminal block * above the typical of the typical of the typical of typic		
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For type 1 and IEEE802.3af For mover-over-Ethernet according to IEEE802.3at for type 2		0.V
• from Power-over-Ethernet according to IEEE802.3at for type 2 consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical power loss [W] • at DC / at 24 V / typical • from terminal block supply voltage / 1 • from terminal block supply voltage / 2 • from terminal block supply voltage / 2 • from terminal block ambient conditions ambient temperature • during operation • during storage • during transport relative humidity / at 25 °C / without condensation / during operation / maximum 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 condition / for operation with EN 60529. protection class IP design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure /		8 V
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product function / Access Point Mode Yes product function / client Mode Yes	· · ·	.9 5.8 GHz; depending on the country approvals
product function / client Mode Yes	features, product functions, product components / ge	eneral
·	function / Access Point Mode Ye	es
number of SSIDs 8	t function / client Mode	es
	r of SSIDs 8	
product function	function	
• iPCF Access Point Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	PCF Access Point You	es; Only in combination with the 'KEY-PLUG W780 iFeatures'
		es; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
PLUG W740 iFeatures'		
• iPCF-MC Access Point No Year Only in compliant time with IKEY PLUG M700 iF a charged on IKEY.		
 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'		es; 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	·	es; 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		es
web-based management Yes	veb-based management Yu	es

MID according	W
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	Voc
Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	V
• 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
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	100
SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
protocor / 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 safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
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 	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
NEMA4X Dever ever Ethernet according IEEE 202 2ct for	No Voc
Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af Development according to IEEE802.3at for	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
	Yes Yes
wireless approval	You will find the current list of countries at:
wilciess approval	www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	n
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) Newdo Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS) Nippon Kajii Kvakai (NK)	Yes
Nippon Kaiji Kyokai (NK) Poloki Bojosts Statkow (DDS)	Yes
Polski Rejestr Statkow (PRS)Royal Institution of Naval Architects (RINA)	Yes Yes
standards, specifications, approvals / hazardous environn standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07
	ATEX 0145X
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 / CCC / for hazardous zone according to GB standard	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 web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/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-Managerto website: Industry Online Support

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.

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