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	48 V
for type 1 and IEEE802.3af	50 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	30 V
consumed current	
• at DC / at 24 V / typical	0.45 A
with Power-over-Ethernet according to IEEE802.3at	0.22 A
for type 1 and IEEE802.3af / typical	
power loss [W]	
at DC / at 24 V / typical	10.7 W
supply voltage / 1	
 from terminal block 	19.2 V
supply voltage / 2	
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	90 %
operation / maximum	When used under horostage conditions (Zone 2), the COALANCE
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	/ general
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	8
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 	No
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-
number of iDCE conclusions disconnected	PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1
number of iREF-capable radio modules product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
·	
product functions / management, configuration, engineeri	
number of manageable IP addresses / in client	8
product function	V
• CLI	Yes
web-based management	Yes
MIB support TRAPs via amail.	Yes
TRAPs via email configuration with STEP 7	Yes
• configuration with STEP 7	Yes
 configuration with STEP 7 in the TIA Portal 	Yes

a approximately IV/II ANI controller	No
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	V
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
	Tes
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 TKID/AEC	Yes
• TKIP/AES	Yes
protocol / is supported	Vac
• 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

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EEEE 802.11h		
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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) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (LRS) • Prench marine classification society (BV) • Pol GL • Korean Register of Shipping (LRS) • Nippon Kalji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) • from CSA and UL • from CSA and UL • 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 accessories 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 Internet-Link • to website: TIA Selection Tool • to twee bage: selection aid TIA Selection Tool • to twee bage: selection aid TIA Selection Tool • to website: Industry Mall • to website: Industry Online Support • to website: Industry Online Support Security information Siemens provides products and solutions, with industrial security functions that support the secure operation of plants, solutions, machines, equipment and offor 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 plants, solutions, it is necessary		
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		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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