SIEMENS

Data sheet

6GK5748-1FC00-0AB0

product type designation



W748-1 RJ45 (USA)

product announced for discontinuation; IWLAN client, SCALANCE W748-1 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, temp: -20 ...+60 °C, 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 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	
• at DC / at 24 V / typical	0.45 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 	0.21 A
power loss [W]	
• at DC / at 24 V / typical	10.7 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 	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 Tale time by miditary (at 25°C / without condensation / during	-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 / gene	
product function / Access Point Mode	No
product function / client Mode	Yes
product function	
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC client	No; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 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

5	V.
• configuration with STEP 7	Yes
configuration with STEP 7 in the TIA Portal	Yes
• WDS	No
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
SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
• function VLAN with IWLAN	No
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	165
product function • ACL - MAC-based	Voc
	Yes
management security, ACL-IP based IEEE 903.1v (radius)	Yes
• IEEE 802.1x (radius)	Yes
NAT/NAPT Access protection according to IEEE 202 44;	Yes
access protection according to IEEE802.11i	Yes
WPA/WPA2 TKIP/AF2	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, FM16US0205X
certificate of suitability	
EC Declaration of Conformity	Yes

Yes
Tes
Yes
Yes
No
Yes
Yes
Yes
For operation in the USA, you will find more information under:
www.siemens.de/funkzulassungen
W.
Yes
EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX
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
Yes
Ex nA IIC T4 Gc
24 V DC screw terminal and screw terminal for digital input and output included
in the scope of delivery
http://www.siemens.com/tia-selection-tool
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
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

	information, visit http://support.automation.siemens.com. (V3.4)
last modified:	5/27/2023 🗗

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

6GK57481FC000AB0