SIEMENS

Data sheet

6GK5748-1FC00-0AB0

product type designation



W748-1 RJ45 (USA)

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 Mbit/s per radio, 1x RJ45 max. 1 Gbit/s, PoE, redundant 24 V DC, terminal 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 terminal 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

0C 8 V 60 V 0.45 A 0.22 A 0.21 A 0.7 W 0.7 W 0.7 W 0.7 W
0.45 A 0.22 A 0.21 A 0.7 W 0.7 W 0.7 W
0.45 A 0.22 A 0.21 A 0.7 W 0.7 W 0.7 W
0.45 A 0.22 A 0.21 A 0.7 W 0.7 W 0.7 W
0.22 A 0.21 A 0.7 W 0.7 W 0.7 W 0.7 W
0.22 A 0.21 A 0.7 W 0.7 W 0.7 W 0.7 W
0.21 A 0.7 W 0.7 W 0.7 W
0.7 W 0.7 W 0.7 W
0.7 W 0.7 W 9.2 V
0.7 W 0.7 W 9.2 V
0.7 W 9.2 V
9.2 V
28.8 V
8.8 V
20 +60 °C
40 +85 °C
40 +85 °C
00 %
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 is in compliance with EN 60529.
P30
200 mm
58 mm
'9 mm
.7 kg
For 35 mm DIN rail mounting an additional mounting adapter is required
'es
'es
'es
'es
2.41 2.48 GHz; depending on the country approvals
9.9 5.8 GHz; depending on the country approvals
eneral
No
/es
es; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
No; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
es; In combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' only
4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

number of manageable ID addresses / in client	
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
• 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	
product function	
ACL - MAC-based	Yes
 management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
NAT/NAPT	Yes
access protection according to IEEE802.11i	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	100
	Von
• 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 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	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 classificatio	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)	Yes
	Yes
Lloyds Register of Shipping (LRS) Nippon Kajii Kyokaj (NK)	
Nippon Kaiji Kyokai (NK) Polski Pojectr Statkow (RRS)	Yes
Polski Rejestr Statkow (PRS) Pougl Institution of Neural Architects (PINA)	Yes
Royal Institution of Naval Architects (RINA)	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
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 the website: INVLAIN 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. Information and Download Center	nap.//www.siemens.com/industry/infocenter

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

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. 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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