SIEMENS

Data sheet

6GK5748-1GD00-0AB0

product type designation



W748-1 M12 (USA)

product announced for discontinuation; IWLAN client, SCALANCE W748-1 M12, 1 radio, 3 N-CON antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbps per radio, 1x M12 max. 1 Gbps, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+60 °C, plug slot, WPA2/802.11i/e, signaling contact observe national approvals! cert ID: RAPN-W1-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: manuals on CD-ROM, German/English; M12 sealing caps, 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 	M12 interface (8-pole, X-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
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)	N-Connect (socket)
product feature / external antenna can be mounted directly on device	Yes
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 type 2 	50 V
consumed current	

 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	0.21 A
for type 2 / typical 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 M12 Power Connector (A-coded) for redundant	19.2 V
power supply	
supply voltage / 2from M12 Power Connector (A-coded) for redundant	28.8 V
power supply	20.0 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	100 %
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 comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
protection class IP	IP65
·	11-00
design, dimensions and weights	
width / of the enclosure / without antenna	200 mm
height / of the enclosure / without antenna	176 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	l general
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, engineeri	ng
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

CICAP	IOMP	V
HTTP	• ICMP	Yes
HTTPS FTPP OCP CDCP Ves LLIDP Ves LLIDP Ves LLIDP Ves LLIDP Ves LIAMO - device-specific information • IkMO - device-specific information • IkMO - device-specific information • IkMI - higher level designation/location designation Product functions / diagnostics product function • PROFINET IO diagnosis • link check • link check • connection monitoring IP-Alive • SNAMP VI • SNAM		
TFTP **OCP** **OCP** **OCP** **LLDP** **CRAMO - devize-specific information** **IRMO - devize-specific information** **IRMO - Infiger level designation/location designation** **product functions / diagnostics* **product functions / diagnostics* **product functions / diagnostics* **product functions / diagnostics* **PROFINET IO diagnosis** **PROFI		
DCP		
ILIDP Ves identification & maintenance function • IsBAM - device-specific information • IsBAM - device-specific information • IsBAM - higher level designation/location designation product functions / diagnosities product functions • PROFINET IO diagnosis • PROFINET IO diagnosis • PROFINET IO diagnosis • No • sonnection monitoring IP-Alive • No • Syst.og protocol / is supported • SNMP v2 • No • Annotion VLAN with INLAN product functions • Annotion VLAN with INLAN product functions / VLAN • DHCP server • DHCP Option 82 • DHCP Option 82 • STPPSTP • MSTP • ANSTP • ANSTP • ANSTP • ANSTP • ANSTP • ANSTP • CL - MAC-based • IEEE 802.1x (radius) • Ves • IEEE 802.1x (radius) • SSH • INPARASE • RADIUS product functions / Item • NATIPALES • SSH • NATIPALES • SSH • SSNF • S		
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IAMO - device-specific information Yes		Yes
IAM1 — higher level designation/location designation Yes		
product functions / diagnostics product function PROFINET IO diagnosis ink check No connection monitoring IP-Alive No SysLog protocol /is supported SMMP v1 SMMP v2 SMMP v3 Product functions / VLAN product functions / HUEP product functions / VLAN PROFINET Yes DHCP Option 82 PROFINET Yes STP RSTP PSTP RSTP PSTP RSTP PSTP RSTP PSTP AMSIP ACL -IP based EIEE 802 1x (radius) NEEE 802 111 **RADIUS PROFINET Yes PRO		
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protocol / is supported • SNMP v2 • SNMP v3 • SNMP v4 • SNMP v	 connection monitoring IP-Alive 	No
	 SysLog 	Yes
**SNMP v3	protocol / is supported	
e SNMP v3 product functions / VLAN product functions / DHCP product functions / DHCP product functions / DHCP product functions / DHCP product functions / Pes	• SNMP v1	Yes
product function / VLAN with IWLAN No product function VLAN with IWLAN No product function / DHCP product function	• SNMP v2	Yes
product 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 ACL-IP based Yes EEE 802.1x (radius) ANTINAPT Yes ACCES protocol / is supported STRIP/AES ACCES protocol / is supported ACL-IP based Yes IEEE 802.1x (radius) ACL-IP based Yes ACL-IP based Yes ACCES protocol / is supported ACL-IP based Yes ACCES protocol / is supported SSH ACCES Yes ACCES A	• SNMP v3	Yes
product 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 RSTP Yes RSTP Yes management security, ACL-IP based Yes IEEE 802.1x (radius) Yes RSTP Yes RSTP Yes RSTP Yes FINITHAPT Yes IEEE 802.1x (radius) Yes FINITAPE ACCESS protocol / is supported SSH Yes PRODUCT IN SUPPORTED TKIP/AES PRODUCT IN SUPPORTED SMATIC TIME SMATIC TIME PRODUCT IN SUPPORTED TKIP/AES PRODUCT IN SUPPORTED TRIP Yes SMATIC time synchronization (SIMATIC Time) SMATIC Comparison PRODUCT IN SUPPORTED CET marking Yes SMATIC time synchronization (SIMATIC Time) STATE CET marking Yes CET marking Y	product functions / VLAN	
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product function • DHCP client • DHCP server • DHCP Option 82 Product functions / redundancy Protocol / is supported • STPRSTP • MSTP • MSTP • MSTP • RSTP Product functions / security Product functions / security Product function • ACL - MAC-based • management security, ACL-IP based • MSTP • NAT/NAPT • SEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.111 Yes • WPAWPA2 • NEPAWPA2 • NEPAWPA2 • SSH • RADIUS Product functions / time Protocol / is supported • NTP • SIM Yes • SIMATIC time synchronization (SIMATIC Time) Protocol / is supported • NTP • SIMATIC time synchronization (SIMATIC Time) Protocol / is supported • NTP • SIMATIC time synchronization (SIMATIC Time) Protocol / is supported • NTP • SIMATIC time synchronization (SIMATIC Time) Protocol / is supported • NTP • SIMATIC time synchronization (SIMATIC Time) Protocol / is supported • NTP • SIMATIC time synchronization (SIMATIC Time) • EC Declaration of Conformity • EC D		
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 NEMA TS2 IEC 61375 IEC 61850-3 No 		
● IEC 61375 No No No		
● IEC 61850-3 No		
● NEMA4X No		
	• NEMA4X	No No

• Power-over-Ethernet according IEEE802.3at for Yes type 1 and IEEE802.3af • Power-over-Ethernet according to IEEE802.3at for Yes type 2 standard for wireless communication • IEEE 802.11a Yes • IEEE 802.11b Yes • IEEE 802.11e Yes • IEEE 802.11q 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)
French marine classification society (BV)
DNV GL
Korean Register of Shipping (KRS)
Lloyds Register of Shipping (LRS)
Nippon Kaiji Kyokai (NK)

Polski Rejestr Statkow (PRS)
 Royal Institution of Naval Architects (RINA)
 Yes

standards, specifications, approvals / hazardous environments

standard / for hazardous zone

certificate of suitability / CCC / for hazardous zone according to GB standard

EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07

ATEX 0145X

Yes

further information / internet-Links

Internet-Link

• to website: TIA Selection Tool

• to web page: selection aid TIA Selection Tool

to the website: IWLANto website: Industry Mall

• to website: Information and Download Center

• to website: Image database

to website: CAx-Download-Managerto website: Industry Online Support

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

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. (V3.4)

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