SIEMENS

Data sheet

6GK5788-2FC00-0AB0

product type designation



W788-2 RJ45 (USA)

IWLAN Access Point, SCALANCE W788-2 RJ45, 2 radios, 6 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, -20..+60 °C, plug slot, WPA2/802.11i/e, Signaling contact observe national approvals! CERT ID: RAPN-W2-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 2x terminal blocks; only for operation in 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	2
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	6
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	

supply voltage *from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 2 *from Power-over-Ethernet acc. to IEEE802.3at for type 2 *from Power-over-Ethernet according to IEEE802.3at for type 3 *with Power-over-Ethernet according to IEEE802.3at for type 4 *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according to IEEE802.3at for type 2 (1) yipsail *with Power-over-Ethernet according	hung of voltage / of the	DC.
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W788-x or W748-x product must be installed in an enclosure. To cor with EN 50021, this enclosure must meet the requirements of at leas 54 in compliance with EN 60529. protection class IP 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 • S7-300 rail mounting Yes • S7-1500 rail mounting Yes • wall mounting Yes • wall mounting Yes operating frequency • for WLAN in 2.4 GHz frequency band 4.9 5.8 GHz; depending on the country approvals product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC Client		When used under hazardous conditions (Zone 2), the SCALANCE
protection class IP design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rai	ansient condition / for operation	W788-x or W748-x product must be installed in an enclosure. To comply
protection class IP design, dimensions and weights width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna 158 mm net weight fastening method S7-300 rail mounting S7-300 rail mounting S7-300 rail mounting S7-300 rail mounting S7-1500 rail mounting S7-1500 rail mounting For 35 mm DIN rail mounting an additional mounting adapter is required. S7-300 rail mounting Yes Mall mounting Yes Wall mounting For WLAN in 2.4 GHz frequency band for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band Forduct function / Access Point Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band Forduct function / Client Mode For WLAN in 5 GHz frequency band For WLAN in 5 GHz frequency For WLA		with EN 50021, this enclosure must meet the requirements of at least IP
width / of the enclosure / without antenna height / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna 158 mm depth / of the enclosure / without antenna 79 mm net weight fastening method S7-300 rail mounting Yes S7-300 rail mounting Yes 35 mm top hat DIN rail mounting Yes wall mounting Yes operating frequency of or WLAN in 2.4 GHz frequency band of rWLAN in 5 GHz frequency band for WLAN in 5 GHz frequency band Yes product function / Access Point Mode Yes product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'		·
width / of the enclosure / without antenna height / of the enclosure / without antenna depth / of the enclosure / without antenna 158 mm depth / of the enclosure / without antenna net weight 1.7 kg fastening method • S7-300 rail mounting • S7-300 rail mounting • S7-1500 rail mounting • Wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 6 GHz frequency • for WLA		IP30
height / of the enclosure / without antenna depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • Was • wall mounting • Yes • wall mounting • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC client		
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting Yes • wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 6 GHz frequency		
net weight fastening method		
fastening method S7-300 rail mounting S7-3100 rail mounting Tyes Tyes Tadio frequencies Operating frequency of rwLAN in 2.4 GHz frequency band of rwLAN in 5 GHz frequency of rwLAN i	depth / of the enclosure / without antenna	
 S7-300 rail mounting S7-1500 rail mounting Yes 35 mm top hat DIN rail mounting Wes wall mounting Yes wall mounting Yes radio frequencies operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band for WLAN in 5 GHz frequency band 9 moduct features, product functions, product components / general product function / Access Point Mode product function / client Mode yes number of SSIDs iPCF Access Point iPCF Client iPCF-MC Access Point iPCF-MC Access Point iPCF-MC Access Point iPCF-MC Client iPCF-MC client		-
S7-1500 rail mounting 35 mm top hat DIN rail mounting wall mounting radio frequencies operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency for WLAN in 5 GHz freque		For 35 mm DIN rail mounting an additional mounting adapter is required
* 35 mm top hat DIN rail mounting * wall mounting * wall mounting * yes radio frequencies operating frequency * for WLAN in 2.4 GHz frequency band * for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode * yes product function / client Mode * yes number of SSIDs product function iPCF Access Point iPCF client ** iPCF-MC Access Point iPCF-MC Access Point iPCF-MC Access Point iPCF-MC Client ** iPCF-MC Client ** yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	S7-300 rail mounting	Yes
• wall mounting radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode product function / client Mode product function / client Mode product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC client	G	Yes
operating frequency		Yes
operating frequency	wall mounting	Yes
 for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band for WLAN in 2.48 GHz; depending on the country approvals for WLAN in 2.48 GHz; depending on the country approvals for WLAN in 2.48 GHz; depending on the country approvals for WLAN in 5 GHz frequency band for WLAN in 5 GHz frequency band for WLAN in 5 GHz frequency band features frequency approvals features frequency approvate frequency approvals features frequency approvate frequency approvate frequency features frequency approvate frequency features frequency features frequency features frequency features frequency features frequency features frequency fe	radio frequencies	
 for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC Access Point iPCF-MC client iPCF-M	operating frequency	
 ◆ 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 product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF client iPCF-MC Access Point iPCF-MC Access Point iPCF-MC client <l< td=""><td>• for WLAN in 2.4 GHz frequency band</td><td>2.41 2.48 GHz; depending on the country approvals</td></l<>	• for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals
product features, product functions, product components / general product function / Access Point Mode product function / client Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC III Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures'	• for WLAN in 5 GHz frequency band	
product function / Access Point Mode product function / client Mode product function / client Mode product function / SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC Client		
product function / client Mode number of SSIDs 16 product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client		
number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC Access Point • iPCF-MC Client • iPCF-MC client • iPCF-MC client • iPCF-MC lient • iPCF-MC lient • iPCF-MC lient • iPCF-MC client • iPCF-MC client • iPCF-MC lient • iPCF-MC lient • iPCF-MC lient • iPCF-MC client • iPCF-MC lient	<u> </u>	
product function ● iPCF Access Point ● iPCF client ● iPCF-MC Access Point ● iPCF-MC Access Point ● iPCF-MC Access Point ● iPCF-MC Access Point ● iPCF-MC decess Point ● iPCF-MC decess Point ● iPCF-MC client ● iPCF-MC client PLUG W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	•	
 ◆ iPCF Access Point ◆ iPCF client ◆ iPCF client ◆ iPCF client ◆ iPCF-MC Access Point ◆ iPCF-MC Access Point ◆ iPCF-MC client ◆ iPCF-MC client		
 iPCF client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KPLUG W740 iFeatures' iPCF-MC Access Point iPCF-MC client Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 	·	Yes: Only in combination with the 'KFY-PI UG W780 iFeatures'
PLUG W740 iFeatures' • iPCF-MC Access Point • iPCF-MC client • iPCF-MC client PLUG W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'		· · · · · · · · · · · · · · · · · · ·
• iPCF-MC client Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	- II OI OIIOIR	
• iPCF-MC client Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	• iPCF-MC Access Point	
PLUG W740 iFeatures'		
number of iPCF-capable radio modules 2		
	number of iPCF-capable radio modules	2
product function / iREF Yes; In combination only with 'KEY-PLUG W780 iFeatures'	<u> </u>	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
number of iREF-capable radio modules 2	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	
• 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
 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	
 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
localization via Aeroscout	Yes
• SysLog	Yes
protocol / is supported	V
SNMP v1 SNMP v2	Yes
• SNMP v2	Yes
SNMP v3	Yes
product functions / VLAN	
product function	V
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	
·	Voc
ACL - MAC-based management acquirity ACL IP based	Yes
management security, ACL-IP based IEEE 202.1v (radius)	Yes
IEEE 802.1x (radius)NAT/NAPT	Yes
	No Voc
access protection according to IEEE802.11iWPA/WPA2	Yes
♥ VVPA/VVPAZ	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
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 No
• railway application in accordance with EN 50121-4	No No
• NEMA TS2	No No
• IEC 61375	No No
	No No
Power-over-Ethernet according IEEE802.3at for	No 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 802.11g	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
Lloyds Register of Shipping (LRS) Nime of Kerii Kurleri (NK)	Yes
Nippon Kaiji Kyokai (NK) Poleki Rejects Statkov (RRS)	Yes
Polski Rejestr Statkow (PRS) Povol Institution of Novel Architecta (PINA)	Yes
Royal Institution of Naval Architects (RINA) at and order appearing a property of the provider of the pr	Yes
standards, specifications, approvals / hazardous environr	
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

• 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-Manager
to 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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