SIEMENS

Data sheet

6GK5788-2FC00-0AA0

Product type designation



SCALANCE W788-2 RJ45

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; for operation outside of USA/Israel

Transmission 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
Interfaces / wireless	
Number of radio cards / permanently installed	2
Transmission mode / for multiple input multiple output	3x3
(MIMO)	
Number of spatial streams	3
Number of electrical connections / for external	6
antenna(s)	
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted	Yes
directly on device	
Signal-Inputs/outputs	
Number of digital inputs	1
Number of digital outputs	1
Type of electrical connection / at the digital	4-pole screw terminal
inputs/outputs	
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 / 1	
• from terminal block	19.2 V
Supply voltage / 2	
• from terminal block	28.8 V
Supply voltage	
• from Power-over-Ethernet acc. to IEEE802.3at	48 V
for type 1 and IEEE802.3af	
• from Power-over-Ethernet acc. to IEEE802.3at	50 V
for type 2	
Consumed current	
• at DC / at 24 V / typical	0.63 A
 with Power-over-Ethernet according to 	0.22 A
IEEE802.3at for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to 	0.3 A
IEEE802.3at for type 2 / typical	
Power loss [W]	
• at DC / at 24 V / typical	15 W
 with Power-over-Ethernet according to 	10.7 W
IEEE802.3at for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to 	15 W
IEEE802.3at for type 2 / typical	
Permitted 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 operation / maximum	90 %
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC 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 weight	
Width / of the enclosure / without antenna	200 mm
Height / of the enclosure / without antenna	158 mm
Depth / of the enclosure / without antenna	79 mm
Depth / of the enclosure / without antenna Net weight	79 mm 1.7 kg
•	
Net weight	1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is
Net weight Mounting type	1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required
Net weight Mounting type • S7-300 rail mounting	1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes

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Wire	less freau	IANCIAC
	1000	

Operating frequency

for WLAN in 2.4 GHz frequency band
 for WLAN in 5 GHz frequency band
 4.9 ... 5.8 GHz

Product properties, functions, components / genera	l e e e e e e e e e e e e e e e e e e e
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
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	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	2
Product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
Number of iREF-capable radio modules	2
Product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

Product functions / management, configuration	
Number of manageable IP addresses / in client	8

Due do et forestiere	
Product function ● CLI	Yes
web-based management	Yes
-	Yes
MIB support TDADs via amail.	Yes
TRAPs via email Configuration with STER 7	Yes
Configuration with STEP 7 Configuration with STEP 7 in the TIA Portal	Yes
• configuration with STEP 7 in the TIA Portal	
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 	Yes
designation	
Product functions / Diagnosis	
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
• in Client Mode / DHCP server via LAN	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	No
 access protection according to IEEE802.11i 	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
Protocol / is supported	
• SSH	Yes
• RADIUS	Yes
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
• 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 hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1
• for hazardous zone / 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	
 EC declaration of conformity 	Yes
• CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes

I the current list of countries at: ns.de/funkzulassungen
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• to website: Industry Online Support

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. Thirdparty 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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