SIEMENS

Data sheet

6GK5788-1AA60-2AA0

Product type designation



SCALANCE W788-1PRO

IWLAN ACCESS POINT SCALANCE W788-1PRO, FOR USE OUTSIDE OF USA, 1 RADIO INTERFACE, IEEE 802.11B/G/A/H, INDUSTRIAL WIRELESS LAN (IWLAN) 2.4/5 GHZ, UP TO 54MBIT/S, WPA2/802.11I/11E, NOTE NATIONAL APPROVALS, POE, IP65(-20-+60 DGR C), EN50155, SCOPE OF SUPPLY: 2XANT 795-4MR, IP67 HYBRID-PLUG CONNECTOR, MOUNT. MAT., MAN. ON CD ROM AVAILABLE AS SPARE PART ONLY

Transmission rate	
Transfer rate / with WLAN / maximum	54 Mbit/s
Transfer rate / for Industrial Ethernet	10, 100 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
Transfer rate / Note	Due to the simultaneous use of several radio channels, a transmission rate of 108 Mbit/s is possible (turbo mode)

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 	Hybrid socket, RJ45 integrated
• for power supply	M12 interface (4-pole, A-coded), hybrid socket, PoE
design of the removable storage	

• C-PLUG	Yes
• KEY-PLUG	No
1.1. 6 1	
Interfaces / wireless	4
Number of radio cards / permanently installed	1
Number of electrical connections / for external antenna(s)	2
Type of electrical connection / for external antenna(s)	R-SMA (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 / 1	
 from M12 Power Connector (A-coded) for redundant power supply 	24 V
• from IE Hybrid Cable 2x2 + 4x0.34	24 V
Supply voltage / 2	
 from M12 Power Connector (A-coded) for redundant power supply 	48 V
• from IE Hybrid Cable 2x2 + 4x0.34	48 V
Supply voltage	
 from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
Consumed current	
• at DC / at 24 V / typical	0.25 A
• at DC / at 48 V / typical	0.125 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.125 A
Power loss [W]	

IEEE802.3at for type 1 and IEEE802.3af / typical	
Permitted ambient conditions	
Ambient temperature	
during operation	-20 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	100 %
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W788-xPRO/RR or W74x-1PRO/RR 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.

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7 W

• at DC / at 24 V / typical

• at DC / at 48 V / typical

• with Power-over-Ethernet according to

Protection class IP	IP65
Design, dimensions and weight	
Width / of the enclosure / without antenna	125 mm
Height / of the enclosure / without antenna	88 mm
Depth / of the enclosure / without antenna	108 mm
Net weight	1.05 kg
Mounting type	
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
• wall mounting	Yes
Wireless frequencies	
Operating frequency	
 for WLAN in 2.4 GHz frequency band 	2.41 2.48 GHz
 for WLAN in 5 GHz frequency band 	4.9 5.8 GHz
Product properties, functions, components / genera	l
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	8
Product function	
Dual Client	No
• iHOP	No
• iPCF Access Point	No
• iPCF client	No
• iPCF-MC Access Point	No
• iPCF-MC client	No
Number of iPCF-capable radio modules	0
Product functions / management, configuration	
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
• iQoS	Yes
forced roaming 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	Yes
 connection monitoring IP-Alive 	Yes
 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
Product functions / Redundancy	
Protocol / is supported	
• STP/RSTP	Yes
Product functions / Security	
Product function	
• ACL - MAC-based	Yes
 Management security, ACL-IP based 	No
, IEEE 000 (/ II)	Yes
• IEEE 802.1x (radius)	

 access protection according to IEEE802.11i 	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
Protocol / is supported	
• SSH	Yes
• SSH	Yes

Product functions / Time	
Protocol / is supported	
• SNTP	Yes
SIMATIC Time	No

• SIMATIC Time	NO
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	ISA 12.12.01-2000, CSA C22.2 No. 213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC, T4 / CL. 1, Zone 2, AEx nC IIC, T4
Certificate of suitability	
 EC declaration of conformity 	Yes
• CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
 Railway application in accordance with EN 50155 	Yes
• NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	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	No
● IEEE 802.11ac	No
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	

American Bureau of Shipping Europe Ltd.
(ABS)
Bureau Veritas (BV)
Det Norske Veritas (DNV)
Germanische Lloyd (GL)
Lloyds Register of Shipping (LRS)
Nippon Kaiji Kyokai (NK)
Polski Rejestr Statkow (PRS)

Accessories

accessories

2 antennas, hybrid connector included in scope of delivery

Further Information / Internet Links

Internet-Link

• to website: 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/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

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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)

last modified:

08/10/2017