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

Transfer rate

- with WLAN / maximum
- for Industrial Ethernet
- Note

54 Mbit/s

10 Mbit/s, 100 Mbit/s

Due to the simultaneous use of several radio channels, a

Interfaces

Number of electrical connections

- for network components or terminal equipment
- for power supply
- for redundant voltage supply

Type of electrical connection

- for network components or terminal equipment
- for power supply

design of the removable storage

- C-PLUG
- KEY-PLUG

transmission rate of 108 Mbit/s is possible (turbo mode)

Hybrid socket, RJ45 integrated

M12 interface (4-pole, A-coded), hybrid socket, PoE

Yes

1

1

1

No

Interfaces / wireless	
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 property / 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 	24 V
redundant power supply	
• 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
Active power loss	
• at DC / at 24 V / typical	7 W
• at DC / at 48 V / typical	7 W
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	7 W
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 /	100 %
during operation / maximum	
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.
Protection class IP	IP65
Design, dimensions and weight	

125 mm
88 mm
108 mm
1.05 kg
Yes
No
Yes

Wireless frequencies

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 / general	
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 functions / VLAN Product function	
	Yes
Product function	Yes
Product function • function VLAN with IWLAN	Yes
Product function • function VLAN with IWLAN Product functions / DHCP	Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function	
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client	Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN	Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy	Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security	Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP	Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security	Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function	Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function • ACL - MAC-based	Yes Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function • ACL - MAC-based • Management security, ACL-IP based	Yes Yes Yes No
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function • ACL - MAC-based • Management security, ACL-IP based • IEEE 802.1x (radius)	Yes Yes Yes Yes Yes Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function • ACL - MAC-based • Management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT	Yes Yes Yes Yes Yes Yes Yes Yes
Product function • function VLAN with IWLAN Product functions / DHCP Product function • DHCP client • in Client Mode / DHCP server via LAN Product functions / Redundancy Protocol / is supported • STP/RSTP Product functions / Security Product function • ACL - MAC-based • Management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i	Yes Yes Yes Yes Yes Yes Yes Yes

Protocol / is supported	
• SSH	Yes
Product functions / Time	
Protocol / is supported	
• SNTP	Yes
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
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) 	Yes
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	Yes

Lloyds Register of Shipping (LRS)

Nippon Kaiji Kyokai (NK)

• Polski Rejestr Statkow (PRS)

Yes

Yes

Yes

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/automation/net/catalog

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. 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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