SIEMENS

Data sheet

Product type designation

6GK5788-1SR00-2AB6



SCALANCE W788-1RR

IWLAN ACCESS POINT POINT SCALANCE W788-1RR, ONLY FOR USE IN USA, 1 RADIO INTERFACE, IEEE 802.11 B/G/A/H, INDUSTRIAL WIRELESS LAN WITH RAPID ROAMING (IWLAN RR), 2.4/5 GHZ, UP TO 54MBIT/S, WPA2/802.111/11E, NOTE NATIONAL APPROVALS, POE, IP65 (-20-+60 DGR C), EN50155, SCOPE OF SUPPLY:2X ANT 795-4MR, IP67 HYBRID PLUG CONNECTOR, MOUNTING ACCESSORIES, MANUALS ON CD-ROM GER/ENG;

Figure similar

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
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 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
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	
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 de la constante de
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	Yes
• iPCF client	Yes
iPCF-MC Access Point	No
• iPCF-MC client	No
Number of iPCF-capable radio modules	1

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 	No
 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	No
Identification & maintenance function	
 I&M0 - device-specific information 	No
 I&M1 – higher-level designation/location 	No
designation	
Product functions / Diagnosis	
Product function	
PROFINET IO diagnosis	Yes
Link Check	Yes
 connection monitoring IP-Alive 	Yes
 localization via Aeroscout 	No
• 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 802.1x (radius)	Yes
● NAT/NAPT	Yes
 access protection according to IEEE802.11i 	Yes
• WPA/WPA2	Yes
• TKIP/AES	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	No
 Railway application in accordance with EN 50155 	No
• 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	For operation in the USA, you can find more detailed information at: www.siemens.com/simatic-net/ik-info
Accessories	
accessories	2 antennas, hybrid connector included in scope of delivery
Further Information / Internet Links	
Internet-Link	
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
• to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx Download Manager 	http://www.siemens.com/cax

• to website: Industry Online Support

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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