SIEMENS

Product type designation

Data sheet

6GK5788-1ST00-2AB6

SCALANCE W788-1PRO

IWLAN ACCESS POINT POINT SCALANCE W788-1PRO, ONLY FOR USE IN 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: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	2
antenna(s)	
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted directly on device	Yes
directly on device	
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
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	Voc
S7-300 rail mounting	Yes

• S7-1500 rail mounting	No
• wall mounting	Yes

Vireless 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 	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	No
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

Security information

Security information

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