SIEMENS

Data sheet

Product type designation

6GK5786-2AA60-6AA0



SCALANCE W786-2RR

IWLAN Access Point SCALANCE W786-2RR, for operation outside USA IEEE 802.11b/g/a/h, Industrial Wireless LAN with rapid roaming (IWLAN RR) 2.4/5 GHz, up to 54 Mbit/s, WPA2/802.11I/11E, Observe national approvals, 48 V DC, IP65 (-40-+70 °C) 4x ext. antenna connections 2 radio interfaces, PoE, RJ45 (Twisted Pair) socket Scope of delivery: mounting hardware, Only available as spare part

Transfer rate	
Transfer rate	
 with WLAN / maximum 	54 Mbit/s
 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 	RJ45 socket
 for power supply 	2-pin connector (48 V DC) or optionally available power supply adapter (4-pin 12 to 24 V DC or 3-pin 100 to 240 V AC)



design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	No
Interfaces / wireless	
Number of radio cards / permanently installed	2
Number of electrical connections / for external antenna(s)	4
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted directly on device	No

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1	
 from terminal block 	48 V
Supply voltage	
 from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
 from optional integrable power supply 	
— at AC	100 240 V
— at DC	12 24 V
Consumed current	
• at DC / at 24 V / typical	0.34 A
• at DC / at 48 V / typical	0.17 A
• at AC / at 230 V / typical	0.04 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.34 A
Power loss [W]	
• at DC / at 24 V / typical	8 W
• at DC / at 48 V / typical	8 W
• at AC / at 230 V / typical	8 W
 with Power-over-Ethernet according to 	8 W
IEEE802.3at for type 1 and IEEE802.3af / typical	
Ambient conditions	
Ambient temperature	
• during operation	-40 +70 °C
• during storage	-40 +85 °C
• during transport	-40 +85 °C
Relative humidity / at 25 °C / without condensation /	100 %
during operation / maximum	
Ambient condition / for operation	When using the 100 - 240 V AC power supply, an operating temperature of -40 $^\circ C$ to +60 $^\circ C$ is permissible

Page 2/6

Protection class IP



IP65

Design, dimensions and weights	
Width / of the enclosure / without antenna	251 mm
Height / of the enclosure / without antenna	251 mm
Depth / of the enclosure / without antenna	72 mm
Net weight	2.24 kg
Mounting type	For mast mounting, 35 mm DIN rail mounting and S7-300 rail
	mounting, an additional support plate is required
 S7-1500 rail mounting 	No
• wall mounting	Yes
Radio 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 features, product functions, product compo	nents / general
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	16
Product function	
Dual Client	Yes
• iHOP	Yes
iPCF Access Point	Yes
• iPCF client	Yes
iPCF-MC Access Point	Yes
• iPCF-MC client	Yes

Product functions / management, configuration, engineering	
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

1

Number of iPCF-capable radio modules



• 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 designation 	Yes
Product functions / Diagnostics	
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
• DHCP server	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 synchronization (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
Certificate of suitability	
• EC declaration of conformity	Yes
• CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
 Railway application in accordance with EN 50155 	No
• NEMA4X	Yes
 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) 	Yes
• Bureau Veritas (BV)	Yes
 Det Norske Veritas (DNV) 	No
Germanische Lloyd (GL)	Yes
 Lloyds Register of Shipping (LRS) 	Yes



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 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	No
accessories	
accessories	48 V DC terminal block 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. Third- party products that may be in use should also be considered. For more information about industrial security, visit

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newsletter. For more information, visit

http://support.automation.siemens.com. (V3.4)

http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific

