SIEMENS

Data sheet	6GK5784-1AA30-6AB0

product type designation	**W784-1RR (USA)**

********** spare part ********** IWLAN RR access point SCALANCE W784-1RR, only for operation in USA, IEEE 802.11b/g/a/h, Industrial Wireless LAN with rapid roaming (IWLAN) 2.4/5 GHz, up to 54 Mbit/s, WPA2/802.11I/11E, observe national approvals, DC 24 V, IP30 (-20-+60 °C) 2x ext. antenna connections 1 radio interface, PoE, RJ45 (twisted pair) socket scope of delivery: 24 V DC terminal block, 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	4-pole screw terminal, PoE
design of the removable storage	
● C-PLUG	Yes
● KEY-PLUG	No

memory	
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	
● from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V
consumed current	
● at DC / at 24 V / typical	0.23 A
● at DC / at 48 V / typical	0.12 A
● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.12 A

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power loss [W]	
● at DC / at 24 V / typical	6 W
● at DC / at 48 V / typical	6 W
● with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	6 W
supply voltage / 1	
● from terminal block	24 V
supply voltage / 2	
● from terminal block	48 V

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	90 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W784-x/xRR or W74x-1 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	IP30

design, dimensions and weights

width / of the enclosure / without antenna	100 mm
height / of the enclosure / without antenna	205 mm
depth / of the enclosure / without antenna	20 mm
net weight	0.29 kg
fastening method	For mounting on 35 mm DIN and S7-300 mounting rail, an additional adapter 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; depending on the country approvals
● for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals

product features, product functions, product components / general

product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	8
product function	
● dual client	Yes
● iHOP	Yes
● iPCF Access Point	Yes
● iPCF client	Yes
● iPCF-MC Access Point	No
● iPCF-MC client	Yes
number of iPCF-capable radio modules	1

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

● 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 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	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
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen

standards, specifications, approvals / marine classification

Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● French marine classification society (BV)	Yes
● Det Norske Veritas (DNV)	No
● Germanische Lloyd (GL)	Yes
● Korean Register of Shipping (KRS)	Yes
● Lloyds Register of Shipping (LRS)	Yes
● Nippon Kaiji Kyokai (NK)	Yes
● Polski Rejestr Statkow (PRS)	No

standards, specifications, approvals / hazardous environments

standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X (only approved in combination with an enclosure with degree of protection of at least IP 54)

accessories

accessories	24 V DC screw terminal included in scope of delivery

further information / internet links

internet link	
● to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to web page: selection aid 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, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)

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