SIEMENS

Data sheet

6GK5788-1GY01-0AA0

product type designation



W1788-1 M12

IWLAN access point, SCALANCE W1788-1 M12, 1 radio, 4 N-CON antenna port, iFeatures support via CLP, IEEE 802.11a/b/g/h/n/ac, 2.4/5GHz, gross 1733 Mbit/s per radio, 2x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+70°C, CLP slot, WPA2/802.11i/e, observe national approvals! CERT ID: RAPAC-W1-M12-E4, includes: MPCIE-R1-ABGNAC-U4, scope of delivery: M12 sealing caps, for operation outside of USA/Israel

transfer rate	
transfer rate	
with WLAN / maximum	1733 Mbit/s
• for Industrial Ethernet	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum / note	2
number of electrical/optical connections / for gigabit Ethernet / maximum	2
number of electrical connections	
 for network components or terminal equipment 	2
for power supply	1
for redundant voltage supply	1
type of electrical connection	
 for network components or terminal equipment 	M12 interface (8-pole, X-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• CLP	Yes
CLP iFeatures	Yes
memory	
design of the removable storage	
• CLP	Yes
CLP iFeatures	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	4x4
number of spatial streams	4
number of electrical connections / for external antenna(s)	4
type of electrical connection / for external antenna(s)	N-Connect (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 2 	48 V
consumed current	

at DC / at 24 V / typical	0.375 A
with Power-over-Ethernet according to IEEE802.3at for	0.21 A
type 2 / typical	
power loss [W]	
at DC / at 24 V / typical	10.1 W
 with Power-over-Ethernet according to IEEE802.3at for 	9 W
type 2 / typical	
supply voltage / 1	
 from M12 Power Connector (A-coded) for redundant 	16.8 V
power supply	
supply voltage / 2	
 from M12 Power Connector (A-coded) for redundant 	31.2 V
power supply	
ambient conditions	
ambient temperature	
 during operation 	-20 +70 °C
 during storage 	-40 +85 °C
 during transport 	-40 +85 °C
relative humidity / at 25 °C / without condensation / during	90 %
operation / maximum	
protection class IP	IP65
design, dimensions and weights	
width	258 mm
	258 mm
height	
depth	80 mm
width / of the enclosure / without antenna	258 mm
height / of the enclosure / without antenna	258 mm
depth / of the enclosure / without antenna	80 mm
net weight	2.7 kg
fastening method	Accessories are required for wall mounting and mounting on a mounting rail.
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
	res
radio frequencies	
operating frequency	
	2.41 2.48 GHz; depending on the country approvals
operating frequency	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
operating frequency • for WLAN in 2.4 GHz frequency band	4.9 5.8 GHz; depending on the country approvals
operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general	4.9 5.8 GHz; depending on the country approvals
operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode	4.9 5.8 GHz; depending on the country approvals eral Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes
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operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 8 No No No No No Yes Yes Yes Yes Yes Yes Yes Ye

protocol /is supported	
CKAIP Yes Tellnet Yes	
Teinet HTTP HTTP Yes HTTPS TETP Yes OCP LLDP LLDP LLDP Identification & maintenance function IslaMO - device-specific information IslaMO - device-specific inf	
HTTP HTTPS HTTPS HTTPS Pes ODCP OCP Ves OLDP Ves LLDP Ves ULDP Ves	
* HTTPS * TFTP * Yes * TFTP * Yes * CDCP * Yes * LLDP * June * Ju	
* TETP	
e LLDP identification & maintenance function • I&Md - device-specific information • I&Md - device-specific information • I&Md - higher level designation/location designation • PROFINET IO diagnosis Product function • PROFINET IO diagnosis product function • PROFINET IO diagnosis • SMMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • SNMP v3	
identification & maintenance function • I&MO - device specific information • I&MI - device specific information • I&MI - displare level designation/location designation PPOFINET II O diagnosis product function • PPOFINET II O diagnosis PPOFINET II O diagnosis • SMMP v3 • Comparison of the product functions / VLAN product functions / VLAN product functions / JHCP product functions / JHCP product functions / JHCP product function of pedicinal very protocol / is supported • STP/RSTP • DHCP Option 82 • STP/RSTP • WS • MSTP • RSTP Product function / security product function / security / sec	
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IAM1 - higher level designation/location designation Yes	
product functions / diagnostics product function PROFINET ID diagnosis Yes protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3 Product functions / VLAN product functions / ULAN product functions / DHCP product functions / DHCP product functions / DHCP product functions / DHCP product functions / PROFINET • DHCP person • DHCP client • DHCP option 82 Protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product functions / security product functions / security product functions / security product function according to IEEE802.11i • ACL - MAC-based • MATNAPT • Access protection according to IEEE802.11i • WPA/WPA2 • SSH • SSH • SCH • SH • SHP • SINTP •	
product function • PROFINET IC diagnosis • PROFINET IC diagnosis • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v2 • SNMP v3 • Yes product functions / VLAN product function • function VLAN with IWLAN product function • DHCP client	
PROFINET IO diagnosis Yes	
Protocol / is supported SNMP v2	
• SNMP v2c	
• SNMP v2c	
SNMP v3 product functions / VLAN product function vLAN with INULAN product functions / DHCP product functions / DHCP product functions / DHCP product functions / DHCP client DHCP server DHCP Option 82 product functions / redundancy protocol / is supported STP/RSTP MSTP MSTP SRSTP Product functions / security Product functions / security / ACL-IP based	
product function / VLAN with IWLAN product function / function VLAN with IWLAN product function / OHCP product function • DHCP client	
product function VLAN with IWLAN	
• function VLAN with IWLAN product functions / DHCP product functions • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • MSTP • MSTP product functions / security product functions / security product functions / security product functions / security product function / • ACL - MAC-based • Management security, ACL-IP based • MEEE 802.1x (radius) • NO • NAT/NAPT • Access protection according to IEEE802.11i • WPAWPA2 • TKIP/AES • TKIP/AES protocol / is supported • SSH • RADIUS product functions / time protocol / is supported • STP/RSTP • SNTP • SN	
product function / DHCP product function	
product function OHCP Client DHCP server OHCP Option 82 Product functions / redundancy protocol / is supported STP/RSTP MSTP RSTP Product functions / security product functions / security product functions / security product functions / security product function / ACL - MAC-based Mo Management security, ACL-IP based Mo Management security, ACL-IP based Mo MAT/NAPT Access protection according to IEEE802.11i WPAWPA2 TKIP/AES Protocol / is supported SSH SSH RADIUS Protocol / is supported SSH SSH Protocol / is supported SSH Protocol / is supported SSH Protocol / is supported SSH SSH Protocol / is supported SSH SSH Protocol / is supported SSH Protocol / is supported SSH SSH Protocol / is supported SSH Protocol / is supported SSH SSH Protocol / is supported SSH SSH Protocol / is supported SSH Pro	
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● for FM FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Groups A,B,C,D, T4 / Class 1,	
T4, FM16US0205X certificate of suitability • EC Declaration of Conformity Yes	
• EC Declaration of Conformity Yes	2, Group IIC,
• CE marking Yes	
• C-Tick Yes	
• E1 approval	
• IEC 61850-3 No	
Power-over-Ethernet according to IEEE802.3at for type 2 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	Yes
• IEEE 802.11ac	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
accessories	
accessories	pre-assembled holder for attachment to a DIN rail
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, 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 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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