SIEMENS

Data sheet

6GK5788-2HY01-0AA0



W1788-2IA M12

IWLAN access point, SCALANCE W1788-2IA M12, 2 radios, 8 internal antennas, 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-W2-M12-I4, includes: MPCIE-R1-ABGNAC-U4, scope of delivery: 1x joint block; 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	2
transmission mode / for multiple input multiple output (MIMO)	4x4
number of spatial streams	4
number of internal antennas	8
type of electrical connection / for external antenna(s)	N-Connect (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	
• from Power-over-Ethernet according to IEEE802.3at	48 V

for type 2	
for type 2	
consumed current	0.7.4
• at DC / at 24 V / typical	0.7 A
with Power-over-Ethernet according to IEEE802.3at for type 2 / typical	0.385 A
power loss [W]	
• at DC / at 24 V / typical	16.8 W
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	18.5 W
supply voltage / 1	
 from M12 Power Connector (A-coded) for redundant power supply 	16.8 V
supply voltage / 2	
 from M12 Power Connector (A-coded) for redundant power supply 	31.2 V
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
height	258 mm
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
S7-500 rail mounting S7-1500 rail mounting	Yes
-	Yes
 35 mm top hat DIN rail mounting wall mounting 	Yes
, in the second s	
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	16
product function	
iPCF Access Point	No
iPCF client	No
 iPCF-MC Access Point 	No
iPCF-MC client	No
product function / iREF	No
product function / iPRP	Yes
product functions / management, configuration, engineeri	ng
product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes
TRAPs via email	Yes
configuration with STEP 7	Yes
configuration with STEP 7 configuration with STEP 7 in the TIA Portal	Yes
configuration with STEP 7 in the TIA Portai operation with IWLAN controller	Yes No
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 forced roaming with IWLAN 	Yes
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down with IWLAN 	No
• 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	Vee
PROFINET IO diagnosis	Yes
protocol / is supported	Ver
• SNMP v1	Yes
• SNMP v2c	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
DHCP Option 82	Yes
product functions / redundancy	
protocol / is supported	
STP/RSTP	Yes
MSTP RSTP	Yes
-	Yes
product functions / security	
product function	
 ACL - MAC-based 	No
 management security, ACL-IP based 	Yes
• IEEE 802.1x (radius)	Yes
NAT/NAPT	No
 access protection according to IEEE802.11i 	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
SIMATIC time synchronization (SIMATIC Time)	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2,
a for opfaby / from CCA and LU	Group IIC, T4
for safety / from CSA and UL certificate of suitability	IEC 62368-1

 EC Declaration of Conformity 	Yes
CE marking	Yes
C-Tick	Yes
 E1 approval 	Yes
• 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 environr	nents
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
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
accessories	
	pre-assembled holder for attachment to a DIN rail
accessories	pre-assembled holder for attachment to a Drivitali
further information / internet-Links	pre-assembled holder for attachment to a Dirivitali
further information / internet-Links	http://www.siemens.com/tia-selection-tool
further information / internet-Links Internet-Link • to website: TIA Selection Tool	
further information / internet-Links Internet-Link	http://www.siemens.com/tia-selection-tool
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
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further information / internet-Links Internet-Link • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	http://www.siemens.com/tia-selection-tool http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com