SIEMENS

Data sheet

6GK5788-1GD00-0AA0

product type designation



W788-1 M12

IWLAN Access Point, SCALANCE W788-1 M12, 1 radio, 3 N-CON antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x M12 max. 1 Gbit/s, PoE, redundant 24 V DC,M12 A-coded IP65, -20..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! CERT ID: RAPN-W1-M12-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, M12 sealing caps, for operation outside of USA/Israel

transfer rate	
transfer rate	
with WLAN / maximum	450 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 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 	M12 interface (8-pole, X-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
interfaces / wireless	
number of radio cards / permanently installed	1
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	3
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 acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
• from Power-over-Ethernet acc. to IEEE802.3at for type 2	50 V
consumed current	

at DC / at 24 V / typical	0.45 A
with Power-over-Ethernet according to IEEE802.3at	0.22 A
for type 1 and IEEE802.3af / typical	
power loss [W]	
at DC / at 24 V / typical	10.7 W
supply voltage / 1	
 from M12 Power Connector (A-coded) for redundant 	19.2 V
power supply	
supply voltage / 2	
• from M12 Power Connector (A-coded) for redundant	28.8 V
power supply	
ambient conditions	
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during	90 %
operation / maximum	
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE
	W788-x or W748-x 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
·	11 00
design, dimensions and weights	200
width / of the enclosure / without antenna	200 mm
height / of the enclosure / without antenna	176 mm
depth / of the enclosure / without antenna	79 mm
net weight	1.7 kg
fastening method	For 35 mm DIN rail mounting an additional mounting adapter is required
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	Yes
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
radio frequencies	
operating frequency	
• IOLVI AN III Z 4 GDZ ITEOHEROV DANO	2.41 2.48 GHz: depending on the country approvals
for WLAN in 2.4 GHz frequency band for WLAN in 5 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
• for WLAN in 5 GHz frequency band product features, product functions, product components	4.9 5.8 GHz; depending on the country approvals // general
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode	4.9 5.8 GHz; depending on the country approvals // general Yes
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode	4.9 5.8 GHz; depending on the country approvals // general Yes Yes
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs	4.9 5.8 GHz; depending on the country approvals // general Yes
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function	4.9 5.8 GHz; depending on the country approvals / general Yes Yes 8
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs	4.9 5.8 GHz; depending on the country approvals // general Yes Yes
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF-MC Access Point	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W78
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC Client	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC dient number of iPCF-capable radio modules	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-IDC Access Point iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC Client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-IDC Access Point iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC Client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures'
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineer	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC delient number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client product function CLI	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF-MC Access Point iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client product function CLI web-based management	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8 Yes Yes
for WLAN in 5 GHz frequency band product features, product functions, product components product function / Access Point Mode product function / client Mode number of SSIDs product function iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client product function CLI web-based management MIB support	4.9 5.8 GHz; depending on the country approvals / general Yes Yes Yes 8 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8 Yes Yes Yes
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operation with Enterasys WLAN controller	No
forced roaming on IP down with IWLAN	Yes
forced roaming on link down with IWLAN	Yes
WDS	Yes
protocol / is supported	166
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	No
 connection monitoring IP-Alive 	No
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
 DHCP Option 82 	Yes
product functions / redundancy	
protocol / is supported	
STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
 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, 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 	Yes
 railway application in accordance with EN 50155 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
NEMA TS2	No
• IEC 61375	No
● IEC 61850-3	No
NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
 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
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	n
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
French marine classification society (BV)	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environm	nents
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07
	ATEX 0145X
• from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
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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