SIEMENS

Data sheet

product type designation

6GK5788-2FC00-0AA0

IWLAN Access Po antenna port, iFea 2.4/5GHz, gross 4 redundant 24 V D WPA2/802.11i/e, RAPN-W2-RJ-E3 Manuals on CD-R outside of USA/Is

W788-2 RJ45

IWLAN Access Point, SCALANCE W788-2 RJ45, 2 radios, 6 R-SMA antenna port, iFeatures support via key plug, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbit/s per radio, 1x RJ45 max. 1 Gbit/s, PoE, redundant 24 V DC, terminal block, IP30, -20..+60 °C, plug slot, WPA2/802.11i/e, Signaling contact observe national approvals! CERT ID: RAPN-W2-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 2x terminal blocks; 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 	RJ45 socket
• for power supply	4-pole screw terminal, PoE
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	2
transmission mode / for multiple input multiple output (MIMO)	3x3
number of spatial streams	3
number of electrical connections / for external antenna(s)	6
type of electrical connection / for external antenna(s)	R-SMA (socket)
product feature / external antenna can be mounted directly on device	Yes
signal inputs/outputs	
number of digital inputs	1
number of digital outputs	1
type of electrical connection / at the digital inputs/outputs	4-pole screw terminal
signal range / at digital input	24 V DC, safety extra-low voltage
signal range / at digital output	24 V DC / 1 A
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 	0.63 A
 with Power-over-Ethernet according to IEEE802.3at 	0.22 A
for type 1 and IEEE802.3af / typical	
 with Power-over-Ethernet according to IEEE802.3at for type 2 / typical 	0.3 A
power loss [W]	
• at DC / at 24 V / typical	15 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	10.7 W
with Power-over-Ethernet according to IEEE802.3at	15 W
for type 2 / typical	
supply voltage / 1	
 from terminal block 	19.2 V
supply voltage / 2	
from terminal block	28.8 V
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 operation / maximum	90 %
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	IP30
design, dimensions and weights	
width / of the enclosure / without antenna	200 mm
height / of the enclosure / without antenna	158 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	
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	
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	16
product function	Vee: Only in combination with the IVEV DULO MIZOD (F. 1
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
 iPCF-MC Access Point 	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
iPCF-MC client	
	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
number of iPCF-capable radio modules	
number of iPCF-capable radio modules product function / iREF	PLUG W740 iFeatures'
	PLUG W740 iFeatures' 2

product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineeri	ng
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
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down 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	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	No
 railway application in accordance with EN 50121-4 	No
• 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 environn	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
accessories	
accessories	24 V DC screw terminal and screw terminal for digital input and output included in the scope of delivery
further information / internet-Links	

 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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