## SIEMENS

## Data sheet

product type designation

## 6GK5788-2FC00-0AA0

product type designation	W/00-2 KJ45
	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, joint 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 joint blocks; for operation outside of USA/Israel.
transfer rate	
transfer rate	
with WLAN / maximum	450 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100, 1000 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s
interfaces	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	1
<ul> <li>for power supply</li> </ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 socket
<ul> <li>for power supply</li> </ul>	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	

W788-2 RJ45

• from Power-over-Ethernet according to IEEE802.3at	48 V
for type 1 and IEEE802.3af • from Power-over-Ethernet according to IEEE802.3at	50 V
for type 2	50 V
consumed current	
• at DC / at 24 V / typical	0.63 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	0.22 A
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 2 / typical</li> </ul>	0.3 A
power loss [W]	
<ul> <li>at DC / at 24 V / typical</li> </ul>	15 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	10.7 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 2 / typical</li> </ul>	15 W
supply voltage / 1	
<ul> <li>from terminal block</li> </ul>	19.2 V
supply voltage / 2	00.01/
from terminal block	28.8 V
ambient conditions	
ambient temperature	20 ±60 °C
<ul><li>during operation</li><li>during storage</li></ul>	-20 +60 °C -40 +85 °C
	-40 +85 °C
<ul> <li>during transport relative humidity / at 25 °C / without condensation / during</li> </ul>	-40 +85 C 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	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
depth / of the enclosure / without antenna net weight	79 mm 1.7 kg
depth / of the enclosure / without antenna net weight fastening method	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting radio frequencies	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b>	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / client Mode	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / client Mode number of SSIDs	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / client Mode	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes 16
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / client Mode number of SSIDs product function	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes 16 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode number of SSIDs product function • iPCF Access Point • iPCF client	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <i>I</i> general Yes Yes Yes 16 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'
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode number of SSIDs product function • iPCF Access Point	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes 16 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> 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	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <i>I</i> general Yes Yes Yes 16 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' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / Access Point Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes 16 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' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> 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	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals <i>I</i> general Yes Yes Yes 16 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' 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' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures'
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depth / of the enclosure / without antenna net weight fastening method • S7-300 rail mounting • S7-1500 rail mounting • 35 mm top hat DIN rail mounting • wall mounting <b>radio frequencies</b> operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band <b>product features, product functions, product components</b> product function / Access Point Mode product function / Access Point 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	79 mm 1.7 kg For 35 mm DIN rail mounting an additional mounting adapter is required Yes Yes Yes Yes Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general Yes Yes 16 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' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY- PLUG W740 iFeatures' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' only
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- web based menorement	Vec
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
<ul> <li>forced roaming on IP down with IWLAN</li> </ul>	Yes
<ul> <li>forced roaming on link down with IWLAN</li> </ul>	Yes
• WDS	Yes
protocol / is supported	
<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	
PROFINET IO diagnosis	Yes
Ink check	No
<ul> <li>connection monitoring IP-Alive</li> </ul>	No
localization via Aeroscout	Yes
• SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	Ver
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
<ul> <li>management security, ACL-IP based</li> </ul>	Yes
IEEE 802.1x (radius)	Yes
NAT/NAPT	No
<ul> <li>NAT/NAPT</li> <li>access protection according to IEEE802.11i</li> </ul>	Yes
Access protection according to receive. The WPA/WPA2	Yes
• WPA/WPA2 • TKIP/AES	Yes
TRIPAES protocol / is supported	
	Vac
• SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes

<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes
standards, specifications, approvals	
certificate of suitability	
EC Declaration of Conformity	Yes
CE marking	Yes
• C-Tick	Yes
<ul> <li>E1 approval</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	No
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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 classificatio	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
• DNV GL	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
standards, specifications, approvals / hazardous environr	nents
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
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	
Internet-Link	
<ul> <li>to website: TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	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
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	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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