SIEMENS

Data sheet

6GK5786-2FC00-0AB0

product type designation



W786-2 RJ45 (USA)

IWLAN Access Point, SCALANCE W786-2 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, 110 - 230 V AC via PS791-2AC IP65, -40..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! CERT ID: EAPN-W2-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: Manuals on CD-ROM, German/English, 1x terminal block; for operation in the USA

transfer rate	
transfer rate	
 with WLAN / maximum 	450 Mbit/s
 for Industrial Ethernet 	10, 1000, 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	2-pole connector (24 V DC) or optionally available power supply adapter (4-pole 24 V DC or 3-pole 110 to 230 V AC)
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	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 for type 1 and IEEE802.3af 	48 V
 from Power-over-Ethernet according to IEEE802.3at for type 2 	50 V
• from optional integrable power supply	
— at AC	100 240 V
— at DC	12 24 V
consumed current	
• at DC / at 24 V / typical	0.63 A
• at AC / at 230 V / typical	0.07 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A



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power loss [W]				
• at DC / at 24 V / typical	15 W			
 at AC / at 230 V / typical 	15 W			
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	10.7 W			
supply voltage / 1				
from terminal block	19.2 V			
supply voltage / 2				
from terminal block	28.8 V			
ambient conditions				
ambient temperature				
 during operation 	-40 +60 °C			
during storage	-40 +85 °C			
during transport	-40 +70 °C			
relative humidity / at 25 °C / without condensation / during	100 %			
operation / maximum ambient condition / for operation	When using the 100 - 240 V AC power supply, an operating temperature of -40			
	°C to +60 °C is permissible			
protection class IP	IP65			
design, dimensions and weights				
width / of the enclosure / without antenna	251 mm			
height / of the enclosure / without antenna	251 mm			
depth / of the enclosure / without antenna	72 mm			
net weight	2.24 kg			
fastening method	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required			
 S7-300 rail mounting 	Yes			
 S7-1500 rail mounting 	No			
 35 mm 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 / gene	ral			
product function / Access Point Mode	Yes			
product function / client Mode	Yes			
number of SSIDs	16			
product function				
iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'			
iPCF Access PointiPCF client	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			
iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'			
 iPCF client iPCF-MC Access Point iPCF-MC client 	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' W740 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG			
iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules	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' 2			
iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF	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'			
iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2			
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	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures'			
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, engineering	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only			
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, engineering number of manageable IP addresses / in client	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2			
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, engineering number of manageable IP addresses / in client product function	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8			
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, engineering number of manageable IP addresses / in client product function	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only			
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, engineering number of manageable IP addresses / in client product function	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support 	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' or 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Yes Yes			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email 	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 	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' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal 	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 8 Yes Yes Yes Yes Yes			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal operation with IWLAN controller 	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' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes No			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal operation with IWLAN controller operation with Enterasys WLAN controller 	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' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 8 Yes Yes Yes Yes Yes Yes No			
 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, engineering number of manageable IP addresses / in client product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 configuration with STEP 7 in the TIA Portal operation with IWLAN controller 	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' 2 Yes; In combination only with 'KEY-PLUG W780 iFeatures' 2 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes 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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
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	165
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,
for safety / from CSA and UL	T4, FM16US0205X UL 60950-1 E115352, CSA C22.2 No. 60950-1



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 	Yes				
NEMA TS2	No				
• IEC 61375	No				
• IEC 61850-3	No				
NEMA4X	Yes				
 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	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen				
reference code					
according to IEC 81346-2:2019	KFE				
standards, specifications, approvals / marine classification Marine classification association					
	N				
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 environments					
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 E240480				
certificate of suitability / CCC / for hazardous zone according to	Yes; GB3836.1, GB3836.8				
GB standard					
as marking	Ex nA IIC T4 Gc				
accessories					
accessories	24 V DC screw terminal included in scope of delivery				
further information / internet links					
internet link					
 to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358				
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud				
 to web page: WLAN country approval 	https://www.siemens.com/wireless-approvals				
• to the website: IWLAN	https://www.siemens.com/iwlan				
 to website: Industrial communication 	https://www.siemens.com/simatic-net				
 to web page: SiePortal 	https://sieportal.siemens.com/				
to website: Image database	https://www.automation.siemens.com/bilddb				
to website: CAx-Download-Manager	https://www.siemens.com/cax				
to website: Industry Online Support	https://support.industry.siemens.com				
security information					
	Siemene provides products and colutions with industrial subgrootwith functions				
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible				
	for preventing unauthorized access to their plants, systems, machines and				



6/13/2025

networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

CE EG-Konf.	CCC	Declaration of Con- formity	EHC	<u>Manufacturer Declara-</u> <u>tion</u>	<u>China RoHS</u>
General Product Approval	For use in hazardou	s locations		Radio Equipment Type Approval Certi- ficate	Maritime application
<u>Miscellaneous</u>	IECEx	K ATEX	<u>CCC-Ex</u>	<u>Miscellaneous</u>	Hoyd's Register urs

last modified:

4/4/2025 🖸



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