SIEMENS

Data sheet

6GK5786-1FC00-0AB0

product type designation



W786-1 RJ45 (USA)

product announced for discontinuation; IWLAN Access Point, SCALANCE W786-1 RJ45, 1 radio, 3 R-SMA- antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5GHz, gross 450 Mbps per radio, 1x RJ45 max. 1 Gbps, PoE, redundant 24 V DC, joint block, 110 - 230 V AC via PS791-2AC IP65, -40..+60 °C, plug slot, WPA2/802.11i/e, observe national approvals! cert ID: EAPN-W1-RJ-E3, includes: MPCIE-R1-ABGN-U3, scope of delivery: manuals on CD-ROM, German/English, 1x joint block; for operation in the USA

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	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)
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)	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	0.45 A
• at AC / at 230 V / typical	0.05 A
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.22 A
power loss [W]	
• at DC / at 24 V / typical	10.7 W
• at AC / at 230 V / typical	10.7 W
 with Power-over-Ethernet according to IEEE802.3at 	10.7 W
for type 1 and IEEE802.3af / typical	10.7 VV
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	100 %
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 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	/ general
product function / Access Point Mode	Yes
product function / client Mode	Yes
number of SSIDs	8
product function	
• 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-
• iPCE MC Access Point	PLUG W740 iFeatures'
iPCF-MC Access Point iPCF-MC client	No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-
▼ II OI TIVIO GIIGIIL	PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	Yes; In combination only with 'KEY-PLUG W780 iFeatures'
number of iREF-capable radio modules	1
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineeri	•
number of manageable IP addresses / in client	8
product function	
• CLI	Yes
	

• MIRI support • TRAPs via email • TRAPs via email • Configuration with STEP 7 in the TIA Portal • Configuration with STEP 7 in the TIA Portal • Configuration with STEP 7 in the TIA Portal • Configuration with STEP 7 in the TIA Portal • Configuration with IMLAN controller • Conservation with IMLAN controller • Conservation with IMLAN via	 web-based management 	Yes
■ TRAPs via email ■ confliguration with STEP 7		
configuration with STEP 7 in the TIA Portal configuration with STEP 7 in the TIA Portal coperation with IWLAN controller coperation with IWLAN controller confered reaming on it Power with IWLAN forced reaming on it in down with IWLAN wwbs yes protocol / is supported Address Resolution Protocol (ARP) Yes in Cime		
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• forced roaming on IP down with IWLAN • forced roaming on link down with IWLAN • WOS protocol / is supported • Address Resolution Protocol (ARP) • ICMP • Telnet • Address Resolution Protocol (ARP) • Telnet • Address Resolution Protocol (ARP) • Telnet • Resolution Protocol (ARP) • Telnet • TETP • Telnet • HTTP • Yes • HTTPS • Yes • TETP • DCP • LLDP Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - device-specific information • I&MM - Inject level designation/location designation product functions / diagnosits product functions / diagnosits product function • PROFINET IO diagnosits • Yes • link check • No • connection monitoring IP-Alive • localization via Aeroscout • SysLog protocol / is supported • SMMP v1 • SMMP v2 • SMMP v3 • SMMP v3 • SMMP v3 • SMMP v3 product functions / VAAN product functions / VAAN product functions / VAAN product functions / PROFINET • DHCP Serever • DHCP Option 82 • Yes • DHCP Option 82 • Yes • MSTP • RSTP • RSTP • RSTP • RSTP • RSTP • RSTP • Yes • IEEE 802.1x (radius) • Ves • IEEE 802.1x (radius) • Ves • IEEE 802.1x (radius) • NaTNNAPT • access protection according to IEEE802.111 • Ves		
• forced roaming on link down with INVLAN • WDS Protocol / is supported • Address Resolution Protocol (ARP) • Address Resolution Protocol (ARP) • Telnet • CIMP • Telnet • Telnet • HTTP • Telnet • HTTP • Yes • HTTPS • Yes • HTTPS • Yes • LLDP • LLDP • LLDP • LLDP • LLDP • LLMD • Identification & maintenance function • I&Mo - device-specific information • I&M - higher level designation/location designation • PROFINET I old agnosits product function • PROFINET I old agnosits • Ink check • Ink check • Ink check • Systog protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3 • Product function • DHCP Cient • DHCP Cient • DHCP Cient • DHCP Cient • DHCP Server • Yes • MSTP • RSTP • CALL - MAC-based • Yes • NATNAPT • access protection according to IEEE802.11i • Yes • NATNAPT • Access protection according to IEEE802.11i • Yes • NATNAPT • Access protection according to IEEE802.11i • Yes • NATNAPT • access protection according to IEEE802.11i • Yes • NATNAPT • access protection according to IEEE802.11i • Yes • NATNAPT		
MOS		
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ECMP		Voe
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HTTPS TFTP TFTP TFTP TFTP TFTP TFTP TFTP		
TFTP DCP DCP Ves LLDP Ves Identification & maintenance function • I&MO - device-specific information • I&MO - light review designation/location designation product functions / diagnostics product function • PROFINET IO diagnosts PROFINET IO diagnosts • Iink check • No • connection monitoring IP-Alive • lo colaization via Aeroscout • SysLog protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 product functions / VLAN product functions / VLAN product function VLAN with IWLAN product function • function VLAN with IWLAN product function • DHCP client • DHCP server • DHCP Option 82 product functions / Yes DHCP Option 82 product functions / SSTP • SSTP • MSTP • MSTP • MSTP • MSTP • MSTP • MSTP Product function / ACL-IP based • management security, ACL-IP based • management security, ACL-IP based • MAT/NAPT • access protection according to IEEE802.11i Yes • NAT/NAPT • access protection according to IEEE802.11i Yes		
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Identification & maintenance function		
identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - higher level designation/location designation product functions / diagnostics product function • PROFINET IO diagnossis • Inink check • connection monitoring IP-Alive • localization via Aeroscout • Syst.og protocol / is supported • SNMP V1 • SNMP V2 • SNMP V2 • SNMP V3 • SNMP V3 product functions / VLAN product functions / DHCP product function / DHCP product function / DHCP product function / DHCP product functions / DHCP product functions / DHCP protocol / is supported • STP/RSTP • STP/RSTP • RSTP • RSTP • RSTP • RSTP res product functions / security product functions / escurity product function / ACL - MAC-based • ACL - MAC-based • Management security, ACL-IP based • EIEE 802, 1x (radius) • No • access protection according to IEEE802.11i Yes		
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• I&M1 – higher level designation/location designation product functions / diagnostics product function • PROFINET IO diagnosis • Iink check • No • connection monitoring IP-Alive • No • localization via Aeroscout • SysLog protocol / is supported • SNMP V1 • SNMP V2 • SNMP V3 product functions / VLAN product functions / VLAN product functions / DHCP product functions / DHCP product functions / DHCP product functions / PRSTP • DHCP Option 82 product functions / redundancy product functions / redundancy product functions / redundancy product functions / security product functions / secu		
product function / diagnostics product function • PROFINET IO diagnosis Yes • link check No • connection monitoring IP-Alive No • localization via Aeroscout Yes • SysLog Yes protocol / is supported • SMMP v1 Yes • SMMP v2 Yes SMMP v2 Yes product functions / VLAN product function VLAN with IWLAN Yes product function / DHCP product function Y Yes • DHCP client Yes • DHCP client Yes • DHCP Option 82 Yes product functions / redundancy protocol / is supported • STP/RSTP Yes • RSTP Yes product functions / security product functions / security product functions / security product functions / security product functions / Yes • management security, ACL-IP based		
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PROFINET IO diagnosis ilink check connection monitoring IP-Alive localization via Aeroscout Yes SysLog protocol / is supported SNMP v1 SNMP v2 SNMP v3 Product functions / VLAN product functions / DHCP product functions DHCP client DHCP option 82 Protocol / is supported Yes STP/RSTP MSTP STP PROTOCOL / is supported Yes Product functions / security Product functions / security Product functions / security Product functions / security Product function ACL - MAC-based management security, ACL-IP based manageme	product functions / diagnostics	
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localization via Aeroscout	• link check	No
SysLog protocol / is supported SNMP v1 SNMP v2 SNMP v3 Yes product functions / VLAN product function / ULAN with IWLAN product function / DHCP product function / PHCP product function / Yes DHCP Option 82 Yes product functions / redundancy protocol / is supported STP/RSTP STP/RSTP Yes RSTP Yes RSTP Yes product functions / security product functions / Security product function / Yes IEEE 802.1x (radius) No access protection according to IEEE802.11i Yes	 connection monitoring IP-Alive 	No
protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3 Product functions / VLAN product function / DHCP product function • DHCP client • DHCP perver • DHCP Option 82 Product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product function • ACL - MAC-based • management security, ACL-IP based • INT/NAPT • access protection according to IEEE802.11i Yes Yes Yes Yes Yes Yes Yes Ye	 localization via Aeroscout 	Yes
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product functions / VLAN product function • function VLAN with IWLAN	• SNMP v2	Yes
product function • function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i Yes	• SNMP v3	Yes
• function VLAN with IWLAN product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i **Yes** Product function / Yes** Product function • ACL - MAC-based • Maccess protection according to IEEE802.11i **Yes** Product function / Yes** Product	product functions / VLAN	
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DHCP server DHCP Option 82 product functions / redundancy protocol / is supported STP/RSTP MSTP NSTP RSTP product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i Yes Yes Yes Yes Yes Yes Yes No Yes No No Yes No No Yes	product function	
DHCP Option 82 product functions / redundancy protocol / is supported	DHCP client	Yes
product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i Yes	DHCP server	Yes
product functions / redundancy protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i Yes	DHCP Option 82	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP Product functions / security product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i Yes		
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MSTP RSTP Yes product functions / security product function ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i Yes		Yes
● RSTP Product functions / security product function ● ACL - MAC-based ● management security, ACL-IP based ● IEEE 802.1x (radius) ● NAT/NAPT ● access protection according to IEEE802.11i 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		
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 ACL - MAC-based management security, ACL-IP based IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i Yes 		
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 IEEE 802.1x (radius) NAT/NAPT access protection according to IEEE802.11i Yes 		
 NAT/NAPT access protection according to IEEE802.11i Yes 		
• access protection according to IEEE802.11i Yes		
• WEATHER.		
	WPA/WPA2 TIANA FO	Yes
• TKIP/AES Yes		Yes
protocol / is supported		
• SSH Yes		
RADIUS Yes		Yes
product functions / time	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 No
• IEC 61375	No
• IEC 61850-3	No You
NEMA4X Dower over Ethernet according IEEE902 2ct for	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 wireless approval	Yes For operation in the LISA year will find more information under:
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	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) Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS) Pouglanditation of Naval Architecta (PINA)	Yes
Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / hazardous environr	
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 included in scope of delivery
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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