SIEMENS

Data sheet

6GK5786-1AB60-2AB0

product type designation



W786-1PRO (USA)

********* spare part ******** IWLAN access point SCALANCE W786-1PRO, only for operation in USA, IEEE 802.11b/g/a/h, Industrial Wireless LAN (IWLAN) 2.4/5 GHz, up to 54 Mbit/s, WPA2/802.11l/11E, observe national approvals, 48 V DC, IP65 (-40-+70 °C), 2x ext. antenna connections 1 radio interface, FO (glass FOC, multimode) socket scope of delivery: mounting hardware, manual on CD-ROM, German/English; only available as spare part.

transfer rate	
transfer rate	
with WLAN / maximum	54 Mbit/s
 for Industrial Ethernet 	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
transfer rate / note	Due to the simultaneous use of several radio channels, a transmission rate of 108 Mbit/s is possible (turbo mode)
interfaces	
number of electrical connections	
 for power supply 	1
 for redundant voltage supply 	1
type of electrical connection	
for power supply	2-pin connector (48 V DC) or optionally available power supply adapter (4-pin 12 to 24 V DC or 3-pin 100 to 240 V AC)
number of optical interfaces	
 for fiber optic cable / at 100 Mbit/s 	1
design of the optical interface	
 for fiber optic cable / at 100 Mbit/s 	Duplex multimode FOC (ST)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	No
memory	
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	No
interfaces / wireless	
number of radio cards / permanently installed	1
number of electrical connections / for external antenna(s)	2
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 optional integrable power supply 	
— at AC	100 240 V

— at DC	12 24 V
consumed current	
• at DC / at 24 V / typical	0.34 A
• at DC / at 48 V / typical	0.17 A
 at AC / at 230 V / typical 	0.04 A
with Power-over-Ethernet according to IEEE802.3at for	0.34 A
type 1 and IEEE802.3af / typical	
power loss [W]	
• at DC / at 24 V / typical	8 W
• at DC / at 48 V / typical	8 W
• at AC / at 230 V / typical	8 W
 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	8 W
supply voltage / 1	
 from terminal block 	48 V
ambient conditions	
ambient temperature	
 during operation 	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 $^\circ\text{C}$ / without condensation / during operation / maximum	100 %
ambient condition / for operation	When using the 100 - 240 V AC power supply, an operating temperature of -40 $^\circ\text{C}$ to +60 $^\circ\text{C}$ 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
5 5	
	additional support plate is required
• S7-1500 rail mounting	No
wall mounting	
wall mounting radio frequencies	No
wall mounting radio frequencies operating frequency	No Yes
wall mounting radio frequencies operating frequency ofor WLAN in 2.4 GHz frequency band	No Yes 2.41 2.48 GHz; depending on the country approvals
wall mounting radio frequencies operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band	No Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
wall mounting radio frequencies operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gene	No Yes 2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral
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forced roaming 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
Ink check	Yes
 connection monitoring IP-Alive 	Yes
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	Vec
DHCP client	Yes
DHCP server	Yes
product functions / redundancy	
protocol / is supported	
• STP/RSTP	Yes
product functions / security	
product function	
 ACL - MAC-based 	Yes
 management security, ACL-IP based 	No
 IEEE 802.1x (radius) 	Yes
NAT/NAPT	Yes
 access protection according to IEEE802.11i 	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
protocol / is supported	
• SNTP	Yes
 SIMATIC time synchronization (SIMATIC Time) 	No
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
- Taiway application in accordance with EN 50155	110

NEMA4X	Yes
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	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	No
wireless approval	For operation in the USA, you will find more information under: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	Yes
Korean Register of Shipping (KRS)	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	No
standards, specifications, approvals / hazardous environments	3
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
accessories	
accessories	48 V DC terminal block 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, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security 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 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that 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 Security RSS Feed under https://www.siemens.com/cett. (V4.6)