SIEMENS

Data sheet

6GK5786-1AA60-2AB0

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, PoE, RJ45 (twisted pair) socket scope of delivery: mounting hardware, manual on CD-ROM 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 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-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)
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	

to DC <i>i</i> it 24 V typical 10 C <i>i</i> it 24 V typical 10 C <i>i</i> it 24 V typical 10 C <i>i</i> it 20 V typical 10 C <i>i</i> it 20 V typical 10 C <i>i</i> it 20 V typical 10 C <i>i</i> it 24 V typical 10 C <i>i</i> it 20 V typical 10 C <i>i</i> 20 V typical		
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type 1 and IEEE802.34 / typical supply voltage / 1 • from terminal block 48 v ambient conditions adving transport • during storage • during transport • during storage • during transport • during storage • during transport • during tran	 at AC / at 230 V / typical 	6.5 W
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	ambient conditions	
	ambient temperature	
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• CLIYes• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / Access Point Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No No No No No No No No No
• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / generation / Access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No No No No No No No No No
MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / generation of the product function / Access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No No
• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client CLI 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes
• configuration with STEP 7Yes• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product functions / management, configuration, engineering number of manageable IP addresses / in client web-based management 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes 8 Yes Yes Yes Yes Yes
• configuration with STEP 7 in the TIA PortalYes• operation with IWLAN controllerNo• operation with Enterasys WLAN controllerNo• iQoSYes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function CLI web-based management MIB support 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes Yes Yes Yes Yes
• operation with IWLAN controller No • operation with Enterasys WLAN controller No • iQoS Yes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function CLI web-based management MIB support TRAPs via email 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes Yes Yes Yes Yes
operation with Enterasys WLAN controller No iQoS Yes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes Yes Yes Yes Yes Yes
• iQoS Yes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / generation / access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules product function CLI web-based management MIB support TRAPs via email configuration with STEP 7 in the TIA Portal 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 8 No Yes Yes Yes Yes Yes Yes Yes Yes
	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules 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 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 8 No Yes Yes Yes Yes Yes Yes Yes Yes
forced roaming with IWLAN Yes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / Access Point Mode product function / client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF client iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules 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 	4.9 5.8 GHz; depending on the country approvals oral Yes Yes Yes 8 No Ves Yes No
	operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules 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	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Ves Yes No No
• WDS Yes	operating frequency for WLAN in 2.4 GHz frequency band for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / Client Mode number of SSIDs product function dual client iHOP iPCF Access Point iPCF-MC Access Point iPCF-MC client number of iPCF-capable radio modules 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 iQoS forced roaming with IWLAN 	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 8 No Yes Yes Yes Yes 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	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	165
product function	
DHCP client	Yes
DHCP client DHCP server	Yes
	Tes
product functions / redundancy	
protocol / is supported	N
• 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
• NEMA4X	Yes
• Power-over-Ethernet according IEEE802.3at for type 1	Yes

and IEEE002 2af	
and IEEE802.3af standard for wireless communication	
IEEE 802.11a	Yes
	Yes
 IEEE 802.11b 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
andards, 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
andards, 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
ccessories	
accessories	48 V DC terminal block included in scope of delivery
rther 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
ecurity information	
security information	Siemens provides products and solutions with industrial security 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 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 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 Security RSS Feed under

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