

product type designation



W786-2PRO (USA)

***** spare part ***** IWLAN access point SCALANCE W786-2PRO, only for operation in USA, IEEE 802.11b/g/a/h, Industrial Wireless LAN (IWLAN) 2.4/5 GHz, up to 54 Mbit/s, WPA2/802.11i/11E, observe national approvals, 48 V DC, IP65 (-40-+70 °C), 4x ext. antenna connections 2 radio interfaces, 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	
<ul style="list-style-type: none"> with WLAN / maximum for Industrial Ethernet 	54 Mbit/s 10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
<ul style="list-style-type: none"> minimum maximum 	10 Mbit/s 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	
<ul style="list-style-type: none"> for power supply for redundant voltage supply 	1 1
type of electrical connection	
<ul style="list-style-type: none"> 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 optical interface	
<ul style="list-style-type: none"> for fiber optic cable / at 100 Mbit/s 	Duplex multimode FOC (ST)
design of the removable storage	
<ul style="list-style-type: none"> C-PLUG KEY-PLUG 	Yes No
memory	
design of the removable storage	
<ul style="list-style-type: none"> C-PLUG KEY-PLUG 	Yes No
interfaces / wireless	
number of radio cards / permanently installed	2
number of electrical connections / for external antenna(s)	4
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	
<ul style="list-style-type: none"> from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af from optional integrable power supply — at AC — at DC 	48 V 100 ... 240 V 12 ... 24 V
consumed current	

<ul style="list-style-type: none"> • at DC / at 24 V / typical • at DC / at 48 V / typical • at AC / at 230 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	<p>0.4 A</p> <p>0.2 A</p> <p>0.05 A</p> <p>0.2 A</p>
<p>power loss [W]</p> <ul style="list-style-type: none"> • at DC / at 24 V / typical • at DC / at 48 V / typical • at AC / at 230 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	<p>9.5 W</p> <p>9.5 W</p> <p>9.5 W</p> <p>9.5 W</p>
<p>supply voltage / 1</p> <ul style="list-style-type: none"> • from terminal block 	<p>48 V</p>
ambient conditions	
<p>ambient temperature</p> <ul style="list-style-type: none"> • during operation • during storage • during transport 	<p>-40 ... +70 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
<p>relative humidity / at 25 °C / without condensation / during operation / maximum</p>	<p>100 %</p>
<p>ambient condition / for operation</p>	<p>When using the 100 - 240 V AC power supply, an operating temperature of -40 °C to +60 °C is permissible</p>
<p>protection class IP</p>	<p>IP65</p>
design, dimensions and weights	
<p>width / of the enclosure / without antenna</p>	<p>251 mm</p>
<p>height / of the enclosure / without antenna</p>	<p>251 mm</p>
<p>depth / of the enclosure / without antenna</p>	<p>72 mm</p>
<p>net weight</p>	<p>2.24 kg</p>
<p>fastening method</p> <ul style="list-style-type: none"> • S7-1500 rail mounting • wall mounting 	<p>For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required</p> <p>No</p> <p>Yes</p>
radio frequencies	
<p>operating frequency</p> <ul style="list-style-type: none"> • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band 	<p>2.41 ... 2.48 GHz; depending on the country approvals</p> <p>4.9 ... 5.8 GHz; depending on the country approvals</p>
product features, product functions, product components / general	
<p>product function / Access Point Mode</p>	<p>Yes</p>
<p>product function / client Mode</p>	<p>Yes</p>
<p>number of SSIDs</p>	<p>16</p>
<p>product function</p> <ul style="list-style-type: none"> • dual client • iHOP • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
<p>number of iPCF-capable radio modules</p>	<p>0</p>
product functions / management, configuration, engineering	
<p>number of manageable IP addresses / in client</p>	<p>8</p>
<p>product function</p> <ul style="list-style-type: none"> • 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 • iQoS • forced roaming with IWLAN • WDS 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

protocol / is supported	
<ul style="list-style-type: none"> • Address Resolution Protocol (ARP) • ICMP • Telnet • HTTP • HTTPS • TFTP • DCP • LLDP 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 - higher level designation/location designation 	<ul style="list-style-type: none"> Yes Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> • PROFINET IO diagnosis • link check • connection monitoring IP-Alive • localization via Aeroscout • SysLog 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes
protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 • SNMP v2 • SNMP v3 	<ul style="list-style-type: none"> Yes Yes Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • function VLAN with IWLAN 	<ul style="list-style-type: none"> Yes
product functions / DHCP	
product function	
<ul style="list-style-type: none"> • DHCP client • DHCP server 	<ul style="list-style-type: none"> Yes Yes
product functions / redundancy	
protocol / is supported	
<ul style="list-style-type: none"> • STP/RSTP 	<ul style="list-style-type: none"> Yes
product functions / security	
product function	
<ul style="list-style-type: none"> • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES 	<ul style="list-style-type: none"> Yes No Yes Yes Yes Yes Yes
protocol / is supported	
<ul style="list-style-type: none"> • SSH 	<ul style="list-style-type: none"> Yes
product functions / time	
protocol / is supported	
<ul style="list-style-type: none"> • SNTP • SIMATIC time synchronization (SIMATIC Time) 	<ul style="list-style-type: none"> Yes No
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> • for FM • for safety / from CSA and UL 	<ul style="list-style-type: none"> FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1
certificate of suitability	
<ul style="list-style-type: none"> • EC Declaration of Conformity • CE marking • C-Tick • E1 approval • railway application in accordance with EN 50155 • NEMA4X • Power-over-Ethernet according IEEE802.3at for type 1 	<ul style="list-style-type: none"> Yes Yes Yes Yes No Yes Yes

and IEEE802.3af	
standard for wireless communication	
<ul style="list-style-type: none"> • IEEE 802.11a • IEEE 802.11b • IEEE 802.11e • IEEE 802.11g • IEEE 802.11h • IEEE 802.11i • IEEE 802.11n 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
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	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) 	<p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
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
accessories	
accessories	48 V DC terminal block included in scope of delivery
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: TIA Selection Tool • to web page: selection aid TIA Selection Tool • to the website: IWLAN • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/iwlan</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security 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 https://www.siemens.com/cert . (V4.6)

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