

Product-type designation

SCALANCE W786-1PRO



IWLAN ACCESS POINT SCALANCE W786-1PRO,
FOR USE OUTSIDE OF USA,
IEEE 802.11B/G/A/H,
INDUSTRIAL WIRELESS LAN (IWLAN) 2.4/5 GHZ,
UP TO 54MBIT/S, WPA2/802.11I/11E,
NOTE NATIONAL APPROVALS, 48VDC,
IP65(-40-+70 DGR C),
2XEXT. ANTENNA CONNECTIONS 1 RADIO INTERFACE,
FO (GLAS-FO, MULTIMODE) SOCKET SCOPE OF
SUPPLY: MOUNT. MAT.,
MANUAL ON CD ROM ON CD-ROM,
GERMAN/ENGLISH;
48VDC TERMINAL BLOCK

Transmission rate

Transmission rate

- with W-LAN / maximum
- with Industrial Ethernet
- note

54 Mbit/s

10 ... 100 Mbit/s

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
- for redundant power supply

1

1

Design of the electrical connection

- for power supply

2-pole connector (48 V DC) or optionally available power supply adapter (4-pole 12 to 24 V DC or 3-pole 100 to 240 V AC)

Number of optical interfaces / for optical waveguide / at 100 Mbit/s

1

Design of optical interface / for optical waveguide / at 100 Mbit/s

Duplex multimode FOC (ST)

design of the removable storage / C-PLUG

Yes

Interfaces / wireless

Number of radio cards / permanently installed

1

Number of electrical connections / for external antenna(s)

2

Design of the electrical connection / for external antenna(s)

R-SMA (socket)

Product property / external antenna can be mounted directly on device	No
Supply voltage, current consumption, power loss	
Type of / supply voltage	DC
Supply voltage	
• 1 / from terminal block	48 V
• from Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	48 V
• from optional integratable power supply	
• with AC	100 ... 240 V
• with DC	12 ... 24 V
Current consumed	
• at 24 V / with DC / typical	0.34 A
• at 48 V / with DC / typical	0.17 A
• at 230 V / with AC / typical	0.04 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.34 A
Effective power loss	
• at 24V / for DC / typical	8 W
• at 48 V / with DC / typical	8 W
• at 230 V / with AC / typical	8 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	8 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	100 %
Protection class IP	IP65
Ambient condition / for (standard) operation mode	When using the power supply 100 to 240 V AC, an operating temperature of -40 °C to +60 °C is permissible
Design, dimensions and weight	
Width / of enclosure / without antenna	251 mm
Height / of enclosure / without antenna	251 mm
Depth / of enclosure / without antenna	72 mm
Net weight	2.24 kg
Mounting type	
• wall mounting	Yes
Mounting type	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required

Wireless frequencies

Radio frequency

- | | |
|--------------------------------------|-------------------|
| • for WLAN in 2.4 GHz frequency band | 2.41 ... 2.48 GHz |
| • for WLAN in 5 GHz frequency band | 4.9 ... 5.8 GHz |

Product properties, functions, components / general

Product function

- | | |
|---------------------|-----|
| • Access Point Mode | Yes |
| • Client Mode | Yes |

Number of SSIDs

8

Product function

- | | |
|------------------------|----|
| • Dual Client | No |
| • iHOP | No |
| • iPCF Access Point | No |
| • iPCF client | No |
| • iPCF-MC Access Point | No |
| • iPCF-MC client | No |

Number of iPCF-capable radio modules

0

Product functions / management, configuration

Number of manageable IP addresses / in client

8

Product function

- | | |
|---|-----|
| • CLI | Yes |
| • web-based management | Yes |
| • MIB support | Yes |
| • TRAPs via email | Yes |
| • Configuration with STEP 7 | Yes |
| • configuration with STEP 7 in the TIA Portal | Yes |
| • operation with IWLAN controller | No |
| • operation with Enterasys WLAN controller | No |
| • iQoS | Yes |
| • 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 |
| • SNMP v1 | Yes |

• SNMP v2	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
Product functions / Diagnosis	
Product function	
• PROFINET IO diagnosis	Yes
• Link Check	Yes
• connection monitoring IP-Alive	Yes
• localization via Aeroscout	Yes
• SysLog	Yes
Product functions / VLAN	
Product function / function VLAN with IWLAN	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• in Client Mode / DHCP server via LAN	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	No
Standards, specifications, approvals	
Standard	
• for EMC / from FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4

• for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / of CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1
• for hazardous area / of CSA and UL	UL 1604, CSA C22.2 No. 213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC, T4
Verification of suitability	
• CE mark	Yes
• EC declaration of conformity	Yes
• C-Tick	Yes
• Railway application in accordance with EN 50155	No
• E1 approval	Yes
• 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	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	No
Accessories	
Accessories	48 V DC terminal block included in scope of delivery
Further Information / Internet Links	
Internet-Link	
• to website: Industry Mall	https://www.siemens.com/industrymall
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com

Security information

Security information

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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)

letzte Änderung:

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