

Product-type designation

SCALANCE W786-2IA RJ45



IWLAN ACCESS POINT,
SCALANCE W786-2IA RJ45,
FOR USE OUTSIDE OF USA 2 RADIOS,
6 INTERNAL ANTENNAS,
IEEE 802.11A/B/G/H/N, 2.4/5GHZ,
BRUTTO 450 MBIT/S PER RADIO,
1 X RJ45 (MAX. 1 GBIT/S), POE, 24VDC,
IP65 (-40-+60 DGR C), POE,
WPA2/802.11I/E,
NOTE NATIONAL APPROVALS! SCOPE OF SUPPLY:
MANUALS ON CD-ROM,
GERMAN / ENGLISH, 1 X TERMINAL BLOCK

Transmission rate

Transmission rate

- | | |
|----------------------------|--------------------|
| • with W-LAN / maximum | 450 Mbit/s |
| • with Industrial Ethernet | 10 ... 1000 Mbit/s |

Interfaces

Number of electrical connections

- | | |
|---|---|
| • for network components and terminal equipment | 1 |
| • for power supply | 1 |
| • for redundant power supply | 1 |

Design of the electrical connection

- | | |
|---|--|
| • for network components and 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

Interfaces / wireless

Number of radio cards / permanently installed

2

Number of internal antennas

6

Supply voltage, current consumption, power loss

Type of / supply voltage

DC

Supply voltage

• 1 / from terminal block	19.2 V
• 2 / from terminal block	28.8 V
• from Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	48 V
• from Power-over-Ethernet according IEEE802.3at for type 2	50 V
• from optional integratable power supply • with AC	100 ... 240 V
• with DC	12 ... 24 V
Current consumed	
• at 24 V / with DC / typical	0.63 A
• at 230 V / with AC / typical	0.07 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.22 A
Effective power loss	
• at 24V / for DC / typical	15 W
• at 230 V / with AC / typical	15 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	15 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +60 °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

16

Product function

- Dual Client No
- iPCF Access Point Yes
 - note Only in combination with the 'KEY-PLUG W780 iFeatures'
- iPCF client Yes
 - note Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
- iPCF-MC Access Point No
- iPCF-MC client No
 - note In combination only with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'

Number of iPCF-capable radio modules

2

Product function / iREF

Yes

- note In combination only with 'KEY-PLUG W780 iFeatures'

Number of iREF-capable radio modules

2

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 No
- configuration with STEP 7 in the TIA Portal No
- operation with IWLAN controller No
- operation with Enterasys WLAN controller No
- 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	No
• Link Check	No
• connection monitoring IP-Alive	No
• localization via Aeroscout	No
• 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	No
Product functions / Redundancy	
Protocol / is supported / STP/RSTP	Yes
Product functions / Security	
Product function	
• Management security, ACL-IP based	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	No
• 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	Yes
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
Verification of suitability	
• CE mark	Yes
• EC declaration of conformity	Yes
• C-Tick	Yes
• CCC	No
• Railway application in accordance with EN 50155	No
• fire protection in accordance with EN 45545-2	No
• E1 approval	Yes
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	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	Yes
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)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No
Accessories	
Accessories	24 V DC screw terminal included in scope of delivery
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