

Product-type designation

SCALANCE W786-1 RJ45



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

Transmission rate

Transfer 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)

Version of the swap medium

- C-PLUG Yes
- KEY-PLUG Yes

Number of radio cards / permanently installed 1

Type of transmission / for multiple input multiple output (MIMO) 3x3

Number of spatial streams 3

Number of electrical connections / for external antenna(s) 3

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	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
Current consumed	
• at 24 V / with DC / typical	0.45 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.22 A
Active power loss	
• at 24V / for DC / typical	10.7 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	10.7 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	
• S7-1500 rail mounting	No
• 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
- Client Mode

Yes
Yes

Number of SSIDs

8

Product function

- Dual Client
- iPCF Access Point
 - note
- iPCF client
 - note
- iPCF-MC Access Point
- iPCF-MC client
 - note

No
Yes
Only in combination with the 'KEY-PLUG W780 iFeatures'
Yes
Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
No
No
In combination only with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'

Number of iPCF-capable radio modules

1

Product function / iREF

- note

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

Number of iREF-capable radio modules

1

Product functions / management, configuration

Number of manageable IP addresses / in client

8

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
- forced roaming with IWLAN
- WDS

Yes
Yes
Yes
Yes
No
No
No
No
Yes
Yes

Protocol / is supported

- Address Resolution Protocol (ARP)
- ICMP
- Telnet
- HTTP
- HTTPS

Yes
Yes
Yes
Yes
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
Product function / 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

<ul style="list-style-type: none"> • for hazardous zone 	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> • for safety / of CSA and UL 	UL 60950-1 CSA C22.2 No. 60950-1
Verification of suitability	
<ul style="list-style-type: none"> • CE mark 	Yes
<ul style="list-style-type: none"> • EC declaration of conformity 	Yes
<ul style="list-style-type: none"> • C-Tick 	Yes
<ul style="list-style-type: none"> • CCC 	No
<ul style="list-style-type: none"> • Railway application in accordance with EN 50155 	No
<ul style="list-style-type: none"> • fire protection in accordance with EN 45545-2 	No
<ul style="list-style-type: none"> • E1 approval 	Yes
<ul style="list-style-type: none"> • NEMA TS2 	No
<ul style="list-style-type: none"> • IEC 61375 	No
<ul style="list-style-type: none"> • IEC 61850-3 	No
<ul style="list-style-type: none"> • NEMA4X 	Yes
<ul style="list-style-type: none"> • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	Yes
<ul style="list-style-type: none"> • Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
Standard for wireless communication	
<ul style="list-style-type: none"> • IEEE 802.11a 	Yes
<ul style="list-style-type: none"> • IEEE 802.11b 	Yes
<ul style="list-style-type: none"> • IEEE 802.11e 	Yes
<ul style="list-style-type: none"> • IEEE 802.11g 	Yes
<ul style="list-style-type: none"> • IEEE 802.11h 	Yes
<ul style="list-style-type: none"> • IEEE 802.11i 	Yes
<ul style="list-style-type: none"> • IEEE 802.11n 	Yes
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	No
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	No
<ul style="list-style-type: none"> • Germanische Lloyd (GL) 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	No

Accessories

Accessories 24 V DC screw terminal included in scope of delivery

letzte Änderung: Jul 28, 2014