

Product-type designation

SCALANCE W788-2 RJ45



IWLAN ACCESS POINT,
 SCALANCE W788-2 RJ45,
 FOR USE OUTSIDE OF USA, 2 RADIOS,
 6 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, 2X24VDC,
 IP30 (-20-+60 DGR C), POE,
 WPA2/802.11I/E, SIGNALLING CONTACT,
 PLEASE NOTE NATIONAL APPROVALS! SCOPE OF
 SUPPLY: MANUALS ON CD ROM GERMAN/ENGLISH,
 2 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 4-pole screw terminal, PoE

Version of the swap medium

- C-PLUG Yes
- KEY-PLUG Yes

Number of radio cards / permanently installed

2

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

3x3

Number of spatial streams

3

Number of electrical connections / for external antenna(s)

6

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

R-SMA (socket)

Product property / external antenna can be mounted directly on device	Yes
Number of digital inputs	1
Number of digital outputs	1
Design of electrical connection / at the digital inputs/outputs	4-pole screw terminal
Signal range	
• at digital input	24 V DC, safety extra-low voltage
• at the digital output	24 V DC /1 A
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	0.63 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.22 A
• with Power-over-Ethernet according to IEEE802.3at for type 2 / typical	0.3 A
Active power loss	
• at 24V / for DC / typical	15 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	10.7 W
• with Power-over-Ethernet according to IEEE802.3at for type 2 / typical	15 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-20 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	90 %
Protection class IP	IP30
Design, dimensions and weight	
Width / of enclosure / without antenna	200 mm
Height / of enclosure / without antenna	158 mm
Depth / of enclosure / without antenna	79 mm
Net weight	1.7 kg
Mounting type	

• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• wall mounting	Yes

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
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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
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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 No
- 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)
- Polski Rejestr Statkow (PRS)

No

No

Accessories

Accessories

24 V DC screw terminal and screw terminal for digital input and output included in the scope of delivery

letzte Änderung:

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