

Product-type designation

SCALANCE W788-1 RJ45



IWLAN ACCESS POINT,
SCALANCE W788-1 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, 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

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 | 4-pole screw terminal, PoE |

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	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	0.45 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
Permitted ambient conditions	
Ambient temperature	
• during operating	-20 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	90 %
Protection class IP	IP30
Ambient condition / for (standard) operation mode	When used under hazardous conditions (Zone 2), the SCALANCE W788-xPRO/RR or W74x-1PRO/RR product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
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	8
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
Number of iPCF-capable radio modules	1
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
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
Standards, specifications, approvals	
Standard	
• 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	-
Verification of suitability	

• CE mark	Yes
• EC declaration of conformity	Yes
• C-Tick	Yes
• Railway application in accordance with EN 50155	No
• E1 approval	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
Accessories	
Accessories	24 V DC screw terminal and screw terminal for digital input and output included in the scope of delivery
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