

Product-type designation

SCALANCE W788-1RR



IWLAN ACCESS POINT SCALANCE W788-1RR, ONLY FOR USE IN USA, 1 RADIO INTERFACE, IEEE 802.11 B/G/A/H, INDUSTRIAL WIRELESS LAN WITH RAPID ROAMING (IWLAN RR), 2.4/5 GHZ, UP TO 54MBIT/S, WPA2/802.11I/11E, NOTE NATIONAL APPROVALS, POE, IP65(-20-+60 DGR C), EN50155, SCOPE OF SUPPLY: 2XANT 795-4MR, IP67 HYBRID-PLUG CONNECTOR, MOUNTING MAT., MAN. ON CD ROM, GERMAN/ ENGLISH;

Transmission rate

Transfer 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 network components and terminal equipment
- for power supply
- for redundant power supply

1

1

1

Design of the electrical connection

- for network components and terminal equipment
- for power supply

Hybrid socket, RJ45 integrated

M12 interface (4-pole, A-coded), hybrid socket, PoE

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 | Yes |
| Supply voltage, current consumption, power loss | |
| Type of / supply voltage | DC |
| Supply voltage | |
| • 1 / from M12 Power Connector (A-coded) for redundant power supply | 24 V |
| • 2 / from M12 Power Connector (A-coded) for redundant power supply | 48 V |
| • from Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af | 48 V |
| Current consumed | |
| • at 24 V / with DC / typical | 0.25 A |
| • at 48 V / with DC / typical | 0.125 A |
| • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 0.125 A |
| Active power loss | |
| • at 24V / for DC / typical | 7 W |
| • at 48 V / with DC / typical | 7 W |
| • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical | 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 | 100 % |
| Protection class IP | IP65 |
| 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 | 125 mm |
| Height / of enclosure / without antenna | 88 mm |
| Depth / of enclosure / without antenna | 108 mm |
| Net weight | 1.05 kg |
| Mounting type | |
| • S7-300 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 | Yes |
| • iHOP | Yes |
| • iPCF Access Point | Yes |
| • iPCF client | Yes |
| • iPCF-MC Access Point | No |
| • iPCF-MC client | Yes |
| 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 | 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

ISA 12.12.01-2000, CSA C22.2 No. 213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC, T4 / CL. 1, Zone 2, AEx nC IIC, T4

Verification of suitability

- CE mark
- EC declaration of conformity
- C-Tick
- Railway application in accordance with EN 50155
- E1 approval
- NEMA4X
- Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af

Yes
Yes
Yes
Yes
Yes
No
Yes

Standard for wireless communication

- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11e
- IEEE 802.11g
- IEEE 802.11h
- IEEE 802.11i
- IEEE 802.11n

Yes
Yes
Yes
Yes
Yes
Yes
No

Wireless approval

For operation in the USA, you can find more detailed information at: www.siemens.com/simatic-net/ik-info

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

Yes
Yes
No
Yes
Yes
Yes
Yes

Accessories

Accessories

2 antennas, hybrid connector included in scope of delivery

letzte Änderung:

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