

Product-type designation

SCALANCE W788-1RR



IWLAN ACCESS POINT SCALANCE W788-1RR,
FOR USE OUTSIDE OF 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,
MOUNT. 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 female (socket)

Product property / external antenna can be mounted directly on device	Yes
Supply voltage, current consumption, power loss	
Type of voltage / 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
Type of mounting	
• 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	Yes
• iPCF-MC Access Point	No
• iPCF-MC	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	
• I&M0 - device-specific information	Yes
• I&M1 - plant identification/location name	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
- CCC
- Railway application in accordance with EN 50155
- e1 approval
- E1 approval
- NEMA4X
- Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af

Yes
Yes
Yes
No
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

You will find the current list of countries at:
www.siemens.de/funkzulassungen

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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