

Product-type designation

SCALANCE W786-2RR



IWLAN ACCESS POINT SCALANCE W786-2RR, FOR USE OUTSIDE OF USA IEEE 802.11B/G/A/H, INDUSTRIAL WIRELESS LAN WITH RAPID ROAMING (IWLAN RR) 2.4/5 GHZ, BIS 54MBIT/S, WPA2/802.11I/11E, NOTE NATIONAL APPROVALS, 48VDC, IP65(-40-+70 DGR C) 4XEXT. ANTENNA CONNECT., 2 RADIO NTERFACES, POE, RJ45 (TWISTED PAIR) SOCKET SCOPE OF SUPPLY.: MOUNT. MAT., DOCU ON CD IN GERMAN AND 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 electrical connection

- for network components and terminal equipment
- for power supply

RJ45 socket

2-pole connector (48 V DC) or optionally available power supply adapter (4-pole 12 to 24 V DC or 3-pole 100 to 240 V AC)

design of the removable storage / C-PLUG

Yes

Interfaces / wireless

Number of radio cards / permanently installed

2

Number of electrical connections / for external antenna(s)

4

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

R-SMA female (socket)

Supply voltage, current consumption, power loss

Type of voltage / of supply voltage	DC
Supply voltage	
• 1 / from terminal block	48 V
• from Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	48 V
• from optional integratable power supply	
• with AC	100 ... 240 V
• with DC	12 ... 24 V
Current consumed	
• at 24 V / with DC / typical	0.34 A
• at 48 V / with DC / typical	0.17 A
• at 230 V / with AC / typical	0.04 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.34 A
Active power loss	
• at 24V / for DC / typical	8 W
• at 48 V / with DC / typical	8 W
• at 230 V / with AC / typical	8 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	8 W

Permitted ambient conditions

Ambient temperature	
• during operating	-40 ... +70 °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
Type of mounting	
• wall mounting	Yes
Type of mounting	For mast mounting, 35 mm DIN rail mounting and S7-300 rail mounting, an additional support plate is required

Wireless frequencies

Radio frequency	
<ul style="list-style-type: none"> • for WLAN in 2.4 GHz frequency band 	2.41 ... 2.48 GHz
<ul style="list-style-type: none"> • for WLAN in 5 GHz frequency band 	4.9 ... 5.8 GHz
Product properties, functions, components / general	
Number of SSIDs	16
Product function	
<ul style="list-style-type: none"> • Dual Client 	Yes
<ul style="list-style-type: none"> • iHOP 	Yes
<ul style="list-style-type: none"> • iPCF 	Yes
<ul style="list-style-type: none"> • iPCF-MC 	Yes
Number of iPCF-capable radio modules	1
Product functions / management, configuration	
Number of manageable IP addresses / in client	8
Product function	
<ul style="list-style-type: none"> • CLI 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • TRAPs via email 	Yes
<ul style="list-style-type: none"> • Configuration with STEP 7 	Yes
<ul style="list-style-type: none"> • configuration with STEP 7 in the TIA Portal 	Yes
<ul style="list-style-type: none"> • SMTP server 	Yes
<ul style="list-style-type: none"> • operation with IWLAN controller 	No
<ul style="list-style-type: none"> • operation with Enterasys WLAN controller 	No
<ul style="list-style-type: none"> • iQoS 	Yes
<ul style="list-style-type: none"> • forced roaming with IWLAN 	Yes
<ul style="list-style-type: none"> • WDS 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • Address Resolution Protocol (ARP) 	Yes
<ul style="list-style-type: none"> • ICMP 	Yes
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	Yes
<ul style="list-style-type: none"> • TFTP 	Yes
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • LLDP 	Yes
Identification & maintenance	
<ul style="list-style-type: none"> • 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
Product functions / Redundancy	
Protocol / is supported / STP/RSTP	Yes
Product functions / Security	
Product function	
• ACL - MAC-based	Yes
• 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
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	UL 1604, CSA C22.2 No. 213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC, T4
Verification of suitability	
• CE mark	Yes
• EC declaration of conformity	Yes
• C-Tick	Yes
• CCC	No
• Railway application in accordance with EN 50155	No

• e1 approval	Yes
• E1 approval	Yes
• NEMA4X	Yes
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	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	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	No

Accessories

Accessories	48 V DC screw terminal included in scope of delivery
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letzte Änderung: Feb 27, 2012