

Product-type designation

SCALANCE W788-2 M12



IWLAN ACCESS POINT,
SCALANCE W788-2 M12,
FOR USE OUTSIDE OF USA, 2 RADIOS,
6 N-CON. ANT.CONNECT. IEEE 802.11A/B/G/H/N,
2.4/5GHZ, BRUTTO 450 MBIT/S PRO RADIO,
1 X M12 (MAX. 1 GBIT/S), POE, 24VDC,
IP65 (-20-+60 GRD C), POE,
WPA2/802.11I/E,
PLEASE NOTE NATIONAL APPROVALS! SCOPE OF
SUPPLY: MANUALS ON CD ROM GERMAN/ENGLISH.

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 power supply | M12 interface (4-pole, A-coded) |
|--------------------|---------------------------------|

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)

6

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

N-Connect (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	19.2 V
• 2 / from M12 Power Connector (A-coded) for redundant power supply	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 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	90 %
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	200 mm
Height / of enclosure / without antenna	176 mm
Depth / of enclosure / without antenna	79 mm
Net weight	1.7 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
- Client Mode

Yes
Yes

Number of SSIDs

16

Product function

- Dual Client
- iPCF Access Point
- iPCF client
- iPCF-MC Access Point
- iPCF-MC client

No
Yes
Yes
No
No

Number of iPCF-capable radio modules

2

Product functions / management, configuration

Number of manageable IP addresses / in client

8

Product function

- CLI
- web-based management
- MIB support
- TRAPs via email
- Configuration with STEP 7
- configuration with STEP 7 in the TIA Portal
- operation with IWLAN controller
- operation with Enterasys WLAN controller
- forced roaming with IWLAN
- WDS

Yes
Yes
Yes
Yes
No
No
No
No
Yes
Yes

Protocol / is supported

- Address Resolution Protocol (ARP)
- ICMP
- Telnet
- HTTP
- HTTPS
- TFTP
- SNMP v1
- SNMP v2
- SNMP v3
- DCP
- LLDP

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
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
• 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
• SIMATIC Time	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
• 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	-
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