



IWLAN ACCESS POINT, SCALANCE W774-1 M12 EEC, FOR USE OUTSIDE USA, 1 RADIO, 2 R-SMA ANT. CONNECT., IFEATUES ONLY WITH KEY-PLUG, IEEE 802.11A/B/G/H/N, 2.4/5GHZ, BRUTTO DATA RATE 300 MBIT/S, 2 X M12 (MAX. 100 MBIT/S), POE INTEGRATED 2-PORT-SWITCH, 1X24VDC, PLUG-SLOT, IP20, CONFORMAL COATING PLEASE NOTE NATIONAL APPROVALS! SCOPE OF SUPPLY: MANUALS ON CD-ROM, GERMAN / ENGLISH,

Transmission rate

Transfer rate

• with WLAN / maximum	300 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s

Interfaces

Number of electrical connections

- for network components or terminal equipment
- for power supply
- for redundant voltage supply

2
1
1

Design of the electrical connection

- for network components or terminal equipment
- for power supply

M12 interface (4-pole, D-coded), PoE
M12 interface (4-pole, A-coded)

design of the removable storage

- C-PLUG
- KEY-PLUG

Yes
Yes

Interfaces / wireless

Number of radio cards / permanently installed

1

Transmission mode / for multiple input multiple output (MIMO)

2x2

Number of spatial streams

2

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 voltage / of the supply voltage	DC
Supply voltage / 1 <ul style="list-style-type: none"> • from terminal block 	19.2 V
Supply voltage / 2 <ul style="list-style-type: none"> • from terminal block 	28.8 V
Supply voltage <ul style="list-style-type: none"> • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af 	48 V
Permitted ambient conditions	
Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-30 ... +65 °C -40 ... +85 °C -40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	100 %
Product property / conformal coating	Yes
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC 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.
Protection class IP	IP30
Design, dimensions and weight	
Width	26 mm
Height	156 mm
Depth	127 mm
Width / of the enclosure / without antenna	26 mm
Height / of the enclosure / without antenna	147 mm
Depth / of the enclosure / without antenna	127 mm
Net weight	0.52 kg
Mounting type <ul style="list-style-type: none"> • S7-300 rail mounting • S7-1500 rail mounting • wall mounting 	wall mounting only if flat mounted Yes Yes Yes
Wireless frequencies	
Radio frequency <ul style="list-style-type: none"> • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band 	2.41 ... 2.48 GHz 4.9 ... 5.8 GHz
Product properties, functions, components / general	

Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	4
Product function	
• Dual Client	No
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
• iPCF-MC client	No; Only in combination with the 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	1
Product function / iREF	No
Number of iREF-capable radio modules	0

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
• forced roaming with IWLAN	No
• WDS	Yes
Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	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

<ul style="list-style-type: none"> • SysLog 	Yes
Protocol / is supported	
<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
Product functions / VLAN	
Product function	
<ul style="list-style-type: none"> • function VLAN with IWLAN 	Yes
Product functions / DHCP	
Product function	
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • in Client Mode / DHCP server via LAN 	No
Product functions / Redundancy	
Protocol / is supported	
<ul style="list-style-type: none"> • STP/RSTP 	Yes
Product functions / Security	
Product function	
<ul style="list-style-type: none"> • ACL - MAC-based 	No
<ul style="list-style-type: none"> • Management security, ACL-IP based 	Yes
<ul style="list-style-type: none"> • IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> • NAT/NAPT 	No
<ul style="list-style-type: none"> • access protection according to IEEE802.11i 	Yes
<ul style="list-style-type: none"> • WPA/WPA2 	Yes
<ul style="list-style-type: none"> • TKIP/AES 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SSH 	Yes
Product functions / Time	
Protocol / is supported	
<ul style="list-style-type: none"> • SNTP 	Yes
<ul style="list-style-type: none"> • SIMATIC Time 	Yes
Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> • for FM 	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> • for hazardous zone 	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> • for safety / from CSA and UL 	UL 60950-1 CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> • for hazardous zone / from CSA and UL 	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
Certificate of suitability	

<ul style="list-style-type: none"> • EC declaration of conformity • CE marking • C-Tick • CCC • E1 approval • Railway application in accordance with EN 50155 • Fire protection in accordance with EN 45545-2 • NEMA TS2 • IEC 61375 • IEC 61850-3 • NEMA4X • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af • Power-over-Ethernet according to IEEE802.3at for type 2 	Yes Yes Yes No Yes Yes No No No No No Yes Yes
Standard for wireless communication <ul style="list-style-type: none"> • 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 Yes
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association <ul style="list-style-type: none"> • 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) 	No No No No No No No
Accessories	
accessories	-
Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> • to website: TIA Selection Tool • to the website: IWLAN 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/iwlan

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>
<http://www.siemens.com/automation/net/catalog>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<http://support.automation.siemens.com>

Security information

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Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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