

product type designation



W738-1 M12

IWLAN client, SCALANCE W738-1 M12, 1 radio, 2 N-CON antenna port, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2.4/5 GHz, gross data rate 300 Mbps, 2x M12 max. 100 Mbps, PoE integrated 2-port switch, redundant 24 V DC, M12 A-coded IP65, -20... 60 °C, plug slot WPA2/802.11i/e, observe national approvals! CERT ID: MSN65-W1-M12-E2 scope of supply: manuals on CD-ROM, German/English; M12 sealing caps, for operation outside of USA/Israel ..

product brand name

SCALANCE

Technical Product Detail Page

<https://l.siemens.com/1P6GK5738-1GY00-0AA0>

transfer rate

transfer rate

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

interfaces

number of electrical connections

- for network components or terminal equipment 2
- for power supply 1
- for redundant voltage supply 1

type of electrical connection

- for network components or terminal equipment M12 interface (4-pole, D-coded), PoE
- for power supply M12 interface (4-pole, A-coded)

memory

design of the removable storage

- C-PLUG Yes
- KEY-PLUG 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

type of electrical connection / for external antenna(s)

N-Connect (socket)

product feature / 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

- from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af 48 V

consumed current

- at DC / at 24 V / typical 0.25 A
- with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 0.125 A

power loss [W]

- at DC / at 24 V / typical 6 W
- with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 6 W

supply voltage / 1	
from M12 Power Connector (A-coded) for redundant power supply	16.8 V
supply voltage / 2	
from M12 Power Connector (A-coded) for redundant power supply	31.2 V
ambient conditions	
ambient temperature	
during operation	-20 ... +60 °C
during storage	-40 ... +85 °C
during transport	-40 ... +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W778-1 M12 or W738-1 M12 product must be installed in an housing with at least IP54 degree of protection according to EN 60529 within the scope of EN 50021.
protection class IP	IP65
design, dimensions and weights	
width	140 mm
height	160 mm
depth	45 mm
width / of the enclosure / without antenna	140 mm
height / of the enclosure / without antenna	149 mm
depth / of the enclosure / without antenna	45 mm
net weight	0.95 kg
fastening method	35 mm DIN rail mounting only per accessories
S7-300 rail mounting	No
S7-1500 rail mounting	No
35 mm DIN-rail mounting	Yes
wall mounting	Yes
radio frequencies	
operating frequency	
for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals
for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components / general	
product function / Access Point Mode	No
product function / client Mode	Yes
product function	
iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1
product function / iREF	No
product function / iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product functions / management, configuration, engineering	
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
WDS	No
protocol / is supported	
Address Resolution Protocol (ARP)	Yes
ICMP	Yes
Telnet	Yes

• HTTP • HTTPS • TFTP • DCP • LLDP	Yes Yes Yes Yes No
identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation	Yes Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function • PROFINET IO diagnosis • link check • connection monitoring IP-Alive • SysLog	Yes No No Yes
protocol / is supported • SNMP v1 • SNMP v2 • SNMP v3	Yes Yes Yes
product functions / VLAN	
product function • function VLAN with IWLAN	No
product functions / DHCP	
product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes Yes
product functions / redundancy	
protocol / is supported • STP/RSTP • MSTP • RSTP	Yes Yes Yes
product functions / security	
product function • ACL - MAC-based • management security, ACL-IP based • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES	Yes Yes Yes Yes Yes Yes Yes
protocol / is supported • SSH • RADIUS	Yes Yes
product functions / time	
protocol / is supported • NTP • SNTP • SIMATIC time synchronization (SIMATIC Time)	Yes Yes Yes
standards, specifications, approvals	
standard • for FM • for safety / from CSA and UL	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X UL 61010-2-201 E85972, CSA C22.2 no. 60950-1
certificate of suitability • EC Declaration of Conformity • CE marking • C-Tick • E1 approval	Yes Yes Yes Yes

• railway application in accordance with EN 50155 • 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	No
	No
	No
	No
	No
	No
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
	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classification	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	No
	Yes
	No
	Yes
	No
	No
	No
	No
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• 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, E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total • during manufacturing • during operation • after end of life	199.95 kg
	33.7 kg
	166.06 kg
	0.19 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: WLAN country approval • to the website: IWLAN • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/wireless-approvals https://www.siemens.com/iwlan https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected

to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



[Manufacturer Declara-
tion](#)

[Type Examination Cer-
tificate](#)

[TUEV](#)

General Product Approval	For use in hazardous locations
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[China RoHS](#)



[CCC-Ex](#)

Radio Equipment Type Approval Certificate	Maritime application
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[Miscellaneous](#)

SUBTEL



[Miscellaneous](#)

[Miscellaneous](#)



Maritime application	Railway
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[NK / Nippon Kaiji Ky-
okai](#)



[Confirmation](#)

Environment



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