SIEMENS

Data sheet

6GK5738-1GY00-0AB0

product type designation



W738-1 M12 (USA)

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, 2.4/5GHz, gross data rate 300 Mbit/s, 2x M12 max. 100 Mbit/s, 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 delivery: Manuals on CD-ROM, German/English; M12 sealing caps, for operation in the USA.

transfer rate	
transfer rate	
with WLAN / maximum	300 Mbit/s
for Industrial Ethernet	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	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)
design of the removable storage	
• C-PLUG	Yes
• KEY-PLUG	Yes
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 	0.125 A

for type 1 and IEEE802.3af / typical power loss [W]	
• at DC / at 24 V / typical	6 W
with Power-over-Ethernet according to IEEE802.3at	6 W
for type 1 and IEEE802.3af / typical	
supply voltage / 1	
• from M12 Power Connector (A-coded) for redundant	16.8 V
power supply	
supply voltage / 2	
• from M12 Power Connector (A-coded) for redundant	31.2 V
power supply	
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 top hat 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	
product function / Access Point Mode	No
product function / client Mode	Yes
product function	V 0.1.1
• 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	PLUG W740 iFeatures' 1
number of iPCF-capable radio modules product function / iREF	
	1
product function / iREF	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product function / iREF product function / iPRP product functions / management, configuration, engineeri	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
product function / iREF product function / iPRP product functions / management, configuration, engineeri number of manageable IP addresses / in client	No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ng
product function / iREF product function / iPRP product functions / management, configuration, engineeri number of manageable IP addresses / in client product function	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ng 8
product function / iREF product function / iPRP product functions / management, configuration, engineers number of manageable IP addresses / in client product function • CLI	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only ing 8 Yes
product function / iREF product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client product function • CLI • web-based management	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Ing 8 Yes Yes
product function / iREF product function / iPRP product functions / management, configuration, engineerinumber of manageable IP addresses / in client product function • CLI • web-based management • MIB support	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Ing 8 Yes Yes Yes Yes
product function / iREF product function / iPRP product functions / management, configuration, engineeri number of manageable IP addresses / in client product function • CLI • web-based management • MIB support • TRAPs via email	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 1 8 Yes Yes Yes Yes Yes Yes
product function / iREF product function / iPRP product functions / management, configuration, engineers number of manageable IP addresses / in client product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 1 8 Yes Yes Yes Yes Yes Yes Yes
product function / iREF product function / iPRP product functions / management, configuration, engineer number of manageable IP addresses / in client product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • configuration with STEP 7 in the TIA Portal	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only Ing 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function / iREF product function / iPRP product functions / management, configuration, engineers number of manageable IP addresses / in client product function	1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 1 8 Yes Yes Yes Yes Yes Yes Yes

- WDC	Na
• WDS	No
protocol / is supported	Voc
Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	No
identification & maintenance function	
 I&M0 - device-specific information 	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
 PROFINET IO diagnosis 	Yes
• link check	No
 connection monitoring IP-Alive 	No
• SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	N
function VLAN with IWLAN	No
product functions / DHCP	
product function	
DHCP client	Yes
DHCP server	Yes
DHCP Option 82	Yes
product functions / redundancy	
protocol / is supported	
STP/RSTP	Yes
MSTP	Yes
• RSTP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
management security, ACL-IP based	Yes
• IEEE 802.1x (radius)	Yes
NAT/NAPT	Yes
access protection according to IEEE802.11i AVDAANDA2	Yes
WPA/WPA2 TKID/AFS	Yes
• TKIP/AES	Yes
protocol / is supported	W.
• SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
 SIMATIC time synchronization (SIMATIC Time) 	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
● for safety / from CSA and III	UL 60950-1, CSA C22.2 No. 60950-1
for safety / from CSA and UL cortificate of suitability	OL 00000-1, OOM 022.2 NO. 00000-1
certificate of suitability	

 EC Declaration of Conformity 	Yes
 CE marking 	Yes
• C-Tick	Yes
E1 approval	Yes
 railway application in accordance with EN 50155 	No
• NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
NEMA4X	No
 Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af 	No
 Power-over-Ethernet according to IEEE802.3at for type 2 	No
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
standards, specifications, approvals / marine classification	on
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	Yes
DNV GL	No
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
Polski Rejestr Statkow (PRS)	No
Royal Institution of Naval Architects (RINA)	No
standards, specifications, approvals / hazardous environ	ments
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
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	http://www.cianaga.com/kianaga.ch
to website: TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to the website: IWLAN	http://www.siemens.com/iwlan
• to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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

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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