SIEMENS

Data sheet

6GK5738-1GY00-0AA0

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, 2.4/5GHz, 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 outside of USA/Israel .

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 for type 1 and IEEE802.3af / typical 	0.125 A	
power loss [W]		

• at DC / at 24 \/ / tunical	****	
• 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	40.07	
 from M12 Power Connector (A-coded) for redundant power supply 	16.8 V	
supply voltage / 2		
	31.2 V	
 from M12 Power Connector (A-coded) for redundant power supply 	31.2 V	
ambient conditions		
ambient temperature		
during operation	-20 +60 °C	
during operation during storage	-40 +85 °C	
	-40 +85 °C	
during transport Additional transport		
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	
and the condition of operation	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	
-	No	
S7-1500 rail mounting S7-1500 rail mounting		
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 / general		
product features, product functions, product components / gen	eral	
product features, product functions, product components / general product function / Access Point Mode	eral No	
product function / Access Point Mode	No	
product function / Access Point Mode product function / client Mode	No	
product function / Access Point Mode product function / client Mode product function	No Yes	
product function / Access Point Mode product function / client Mode product function	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client product function	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI • web-based management	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes	
product function / Access Point Mode product function / client Mode product function	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes	
product function / Access Point Mode product function / client Mode product function	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering 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	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering 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 • operation with IWLAN controller	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes No	
product function / Access Point Mode product function / client Mode product function	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes Yes No No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering 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 • operation with IWLAN controller • operation with Enterasys WLAN controller • WDS	No Yes Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes Yes Yes No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering 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 • operation with IWLAN controller • operation with Enterasys WLAN controller • WDS protocol / is supported	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes No No No	
product function / Access Point Mode product function / client Mode product function • iPCF client • iPCF-MC client number of iPCF-capable radio modules product function / iREF product function / iPRP product functions / management, configuration, engineering 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 • operation with IWLAN controller • operation with Enterasys WLAN controller • WDS	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; In combination with the 'KEY-PLUG W780 iFeatures' only 8 Yes Yes Yes Yes Yes Yes Yes Yes No No	

• 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	
function VLAN with IWLAN	No
product functions / DHCP	INC.
product function	V
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 	Yes
WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
SIMATIC time synchronization (SIMATIC Time)	Yes
standards, specifications, approvals	
standard	
	EM 2611: Class I Division 2 Groups A P.C.D. TA / Class 4, Zana 2 Groups IIC
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety / from CSA and UL	UL 61010-2-201 E85972, CSA C22.2 no. 60950-1
certificate of suitability	
EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes
	V
• E1 approval	Yes
E1 approvalrailway application in accordance with EN 50155	No

● IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
Power-over-Ethernet according IEEE802.3at for type 1	No
and IEEE802.3af	
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	
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 environments	110
standard / for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX
Standard / for flazardous zone	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
as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
• 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	The post-deposit and design and the second s
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 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)
last modified:	8/11/2023 🗗

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

6GK57381GY000AA0