# **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		
<ul><li>with WLAN / maximum</li></ul>	300 Mbit/s	
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100 Mbit/s	
transfer rate / for Industrial Ethernet		
• minimum	10 Mbit/s	
<ul><li>maximum</li></ul>	100 Mbit/s	
interfaces		
number of electrical connections		
<ul> <li>for network components or terminal equipment</li> </ul>	2	
<ul><li>for power supply</li></ul>	1	
<ul> <li>for redundant voltage supply</li> </ul>	1	
type of electrical connection		
<ul> <li>for network components or terminal equipment</li> </ul>	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		
<ul> <li>from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V	
consumed current		
<ul><li>at DC / at 24 V / typical</li></ul>	0.25 A	
<ul> <li>with Power-over-Ethernet according to IEEE802.3at</li> </ul>	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	
<ul><li>during operation</li></ul>	-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	100
operating frequency	2.44 2.40 Clim depending on the country approvale
• 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	
• 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
p. caactionologi, ii id	
product functions / management, configuration, engineer	ing
·	ing 8
product functions / management, configuration, engineer	
product functions / management, configuration, engineer number of manageable IP addresses / in client	
product functions / management, configuration, engineer number of manageable IP addresses / in client product function  • CLI	8
product functions / management, configuration, engineer number of manageable IP addresses / in client product function  • CLI • web-based management	Yes Yes
product functions / management, configuration, engineer number of manageable IP addresses / in client product function  CLI  web-based management  MIB support	Yes Yes Yes
product functions / management, configuration, engineer number of manageable IP addresses / in client product function  • CLI • web-based management • MIB support • TRAPs via email	Yes Yes Yes Yes Yes
product functions / management, configuration, engineer number of manageable IP addresses / in client product function	Yes Yes Yes Yes Yes Yes
product functions / management, configuration, engineer number of manageable IP addresses / in client product function	Yes Yes Yes Yes Yes Yes Yes Yes
number of manageable IP addresses / in client product function  • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	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	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
• link check	No
<ul> <li>connection monitoring IP-Alive</li> </ul>	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
<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	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, OOA 022.2 NO. 00000-1
certificate of suitability	

<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	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
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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:
wildless approval	www.siemens.de/funkzulassungen
standards, specifications, approvals / marine classificatio	n
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
French marine classification society (BV)	Yes
• DNV GL	No
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	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 environn	nents
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	
<ul> <li>to website: TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	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
<ul> <li>to website: CAx-Download-Manager</li> </ul>	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
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	For more information, visit http://support.automation.siemens.com. (V3.4)
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