SIEMENS

Data sheet

6GK5738-1GY00-0AB0



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 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, English/German; 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
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 / 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
supply voltage	
 from Power-over-Ethernet acc. 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 for type 1 and IEEE802.3af / typical	6 W
for type 1 and IEEE802.3af / typical	
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
	45 mm
depth width / of the enclosure / without antenna	140 mm
	149 mm
height / of the enclosure / without antenna	
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	/ 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, engineeri	•
number of manageable IP addresses / in client	8
product function	
CLI	Yes
	Yes
web-based management MIR support	Yes
MIB support TRAPs via amail.	
TRAPs via email Application with STEP 7.	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	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	INO
product function	Van
DHCP client	Yes
DHCP server DUOD Outline 00	Yes
DHCP Option 82	Yes
and death from the man I was decorded as a con-	
product functions / redundancy	
protocol / is supported	
protocol / is supported • STP/RSTP	Yes
protocol / is supported • STP/RSTP • MSTP	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP	
protocol / is supported • STP/RSTP • MSTP	Yes
protocol / is supported	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP product functions / security product function • ACL - MAC-based	Yes
protocol / is supported	Yes Yes
protocol / is supported	Yes Yes
protocol / is supported	Yes Yes Yes Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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	Yes Yes Yes Yes Yes Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported • SSH	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported • SSH • RADIUS	Yes
protocol / is supported	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported • SSH • RADIUS product functions / time protocol / is supported	Yes
protocol / is supported	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported • SSH • RADIUS product functions / time protocol / is supported • NTP • SNTP	Yes
protocol / is supported	Yes
protocol / is supported • STP/RSTP • MSTP • RSTP 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 protocol / is supported • SSH • RADIUS product functions / time protocol / is supported • NTP • SNTP • SIMATIC time synchronization (SIMATIC Time) standards, specifications, approvals	Yes
protocol / is supported	Yes

• 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	
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
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) Have Begister of Shipping (LRS)	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK) Total Report (CTO)	No
 Polski Rejestr Statkow (PRS) 	No
Royal Institution of Naval Architects (RINA)	No
further information / internet-Links	
Internet-Link	
 to website: 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 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:	12/16/2020 🗗