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

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 Design, dimensions and weights	Interfaces / wireless	
(MIMO) Number of spatial streams 2 Number of electrical connections / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage 7 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage 7 • from M12 Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum Arribient 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 60259 within the scope of EN 50021. Protection class IP Design, dimensions and weights	Number of radio cards / permanently installed	1
Number of electrical connections / for external antenna(s) Type of electrical connection / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage 7 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af / typical • at DC / at 24 V / typical 0.25 A IEEE802.3at for type 1 and IEEE802.3af / typical 0.125 A IEEE802.3at for type 1 and IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE802.3af / typical 6 W • with Power-over-Ethernet according to IEEE80		2x2
antenna(s) Type of electrical connection / for external antenna(s) Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage 4 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3af / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af / typical • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Number of spatial streams	2
Product feature / external antenna can be mounted directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af (As V V V V V V V V V V V V V V V V V V V		2
directly on device Supply voltage, current consumption, power loss Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Ambient conditions Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 IP84 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights	Type of electrical connection / for external antenna(s)	N-Connect (socket)
Type of voltage / of the supply voltage Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during operation • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 IPS4 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights		Yes
Supply voltage / 1 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M2 Power Supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Ambient conditions Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Supply voltage, current consumption, power loss	
• from M12 Power Connector (A-coded) for redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af or type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 IPS4 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights	Type of voltage / of the supply voltage	DC
redundant power supply Supply voltage / 2 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical 6 W • with Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Ambient conditions Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Supply voltage / 1	
• from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	,	16.8 V
redundant power supply Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af or type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / for operation 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 Design, dimensions and weights	Supply voltage / 2	
• from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3af / typical Ambient conditions Ambient conditions Ambient temperature • during operation • during storage • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights		31.2 V
for type 1 and IEEE802.3af Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Supply voltage	
 at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical Power loss [W] at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights 		48 V
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical Power loss [W] at DC / at 24 V / typical 6 W with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical Ambient conditions Ambient temperature during operation -20 +60 °C -40 +85 °C during transport -40 +85 °C Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Consumed current	
Power loss [W]	• at DC / at 24 V / typical	0.25 A
at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature during operation during storage during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights		0.125 A
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	Power loss [W]	
IEEE802.3at for type 1 and IEEE802.3af / typical Ambient conditions Ambient temperature • during operation • during storage • during transport -40 +85 °C • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	• at DC / at 24 V / typical	6 W
Ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	 with Power-over-Ethernet according to 	6 W
Ambient temperature • during operation -20 +60 °C -40 +85 °C • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	IEEE802.3at for type 1 and IEEE802.3af / typical	
 during operation during storage during transport 40 +85 °C Relative humidity / at 25 °C / without condensation / during operation / maximum 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 	Ambient conditions	
 ◆ during storage -40 +85 °C Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights 	Ambient temperature	
 during transport Relative humidity / at 25 °C / without condensation / during operation / maximum 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 	during operation	-20 +60 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum 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 Design, dimensions and weights	during storage	-40 +85 °C
during operation / maximum 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 Design, dimensions and weights	during transport	-40 +85 °C
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 Design, dimensions and weights	-	95 %
Design, dimensions and weights	Ambient condition / for operation	housing with at least IP54 degree of protection according to EN
	Protection class IP	IP65
Width 140 mm	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
Mounting type	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 4.9 ... 5.8 GHz • for WLAN in 5 GHz frequency band

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	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	No
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location	Yes
designation	
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
	No
• function VLAN with IWLAN	No
• function VLAN with IWLAN Product functions / DHCP	No Yes
• function VLAN with IWLAN Product functions / DHCP Product function	
• function VLAN with IWLAN Product functions / DHCP Product function • DHCP client	Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server 	Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 	Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy 	Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported 	Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP 	Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP 	Yes Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP RSTP 	Yes Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP RSTP Product functions / Security 	Yes Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP RSTP Product functions / Security Product function 	Yes Yes Yes Yes Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP RSTP Product functions / Security Product function ACL - MAC-based 	Yes Yes Yes Yes Yes Yes Yes Yes
 function VLAN with IWLAN Product functions / DHCP Product function DHCP client DHCP server DHCP Option 82 Product functions / redundancy Protocol / is supported STP/RSTP MSTP RSTP Product functions / Security Product function ACL - MAC-based Management security, ACL-IP based 	Yes Yes Yes Yes Yes Yes Yes Yes Yes
function VLAN with IWLAN Product functions / DHCP Product function	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	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
• 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
Bureau Veritas (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

Further information / Internet-Links

Internet-Link

• to website: TIA Selection Tool

• to the website: IWLAN • to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/iwlan

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

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. Thirdparty 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:

03/11/2020