SIEMENS

Data sheet

6GK5778-1GY00-0AA0

product type designation



W778-1 M12

IWLAN access point, SCALANCE W778-1 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 V / humical	C 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
supply voltage / 1	
	16.8 V
 from M12 Power Connector (A-coded) for redundant power supply 	10.0 V
supply voltage / 2	
• from M12 Power Connector (A-coded) for redundant	31.2 V
power supply	01.2 V
ambient conditions	
ambient temperature	
during operation	-20 +60 °C
during storage	-40 +85 °C
during storage during transport	-40 +85 °C
	95 %
relative humidity / at 25 °C / without condensation / during operation / maximum	95 /6
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W778-1
and a solution is a special of	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
	35 mm DIN rail mounting only per accessories
fastening method	
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
35 mm top hat DIN rail mounting	Yes
 wall mounting 	Yes
	100
radio frequencies	
radio frequencies	2.41 2.48 GHz; depending on the country approvals
radio frequencies operating frequency	
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC access Point • iPCF-MC dient number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC access Point • iPCF-MC dient number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF-MC Access Point • iPCF-MC access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineering	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
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radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / general product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI • web-based management	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
radio frequencies operating frequency • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band product features, product functions, product components / gen product function / Access Point Mode product function / client Mode number of SSIDs product function • iPCF Access Point • iPCF client • iPCF-MC Access Point • iPCF-MC client number of iPCF-capable radio modules product function / iREF number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineering number of manageable IP addresses / in client product function • CLI • web-based management • MIB support	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
operating frequency	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
operating frequency	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only
operating frequency	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals eral Yes Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' or 'KEY-PLUG W740 iFeatures' No Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

 operation with Enterasys WLAN controller 	No
 forced roaming on IP down with IWLAN 	Yes
 forced roaming on link down with IWLAN 	Yes
• WDS	Yes
protocol / is supported	
 Address Resolution Protocol (ARP) 	Yes
• ICMP	Yes
 Telnet 	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	165
product function	Vac
PROFINET IO diagnosis	Yes
• link check	No
connection monitoring IP-Alive	No
 localization via Aeroscout 	Yes
SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
 function VLAN with IWLAN 	Yes
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	Ver
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 • for FM	EM 3611: Class I Division 2 Croups A.P.C.D. TA / Class 1 7000 2 Croups IIC
▼ IUI FIVI	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, C22.2 no. 60950-1
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
 railway application in accordance with EN 50121-4 	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 	Yes
 Power-over-Ethernet according to IEEE802.3at for type 2 	Yes
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	1 ou will find the current list of countries at, www.sichlens.ue/fullkzulassungen
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
standards, specifications, approvals / hazardous environments	
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 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	
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

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