SIEMENS

Data sheet

6GK5778-1GY00-0AB0



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, 2.4/5 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, - 30... 65 °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

Number of radio cards / permanently installed Transmission mode / for multiple input multiple output (MIMO) Number of spatial streams 2 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 Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at Consumed current • 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 • 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 • 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 • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af / typical • with Power-over-Ethernet according to IEEE802.3af / typical • during operation • during goration • during operation • during operation • during operation • 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	Interfaces / wireless			
MIMO) Number of spatial streams 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 • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply Supply voltage • from M12 Power Connector (A-coded) for redundant power supply 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 / 1 • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical • at DC / at 24 V / typical •	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 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af / 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 IEEE802.3at 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 IPS4 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights		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 / 2 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3at for type 1 and IEEE802.3at / typical • at DC / at 24 V / typical • at DC /	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 of the supply 16.8 V Supply voltage of the supply 31.2 V Supply voltage of the supply of the supp				
directly on device Supply voltage, current consumption, power loss Type of 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 / 3 • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af / 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 out Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical out Power-over-Ethernet according to IEEE802.3af for type 1 and IEEE802.3af / typical Ambient conditions Ambient conditions Ambient conditions Ambient demperature • 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		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 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 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 IP54 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 Power-over-Ethernet acc. 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 Power loss [W] • at DC / at 24 V / typical of With Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical Power loss [W] • at DC / at 24 V / typical of With Power-over-Ethernet according to IEEE802.3at 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				
• 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 IP54 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights		DC		
• 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 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 IP54 degree of protection according to EN 60529 within the scope of EN 50021. Protection class IP Design, dimensions and weights	• from M12 Power Connector (A-coded) for	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 / 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	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 IEEE802.3at 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 with Power-over-Ethernet according to IEEE802.3af / typical 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	redundant power supply	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 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 IEEE802.3af / 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		48 V		
with Power-over-Ethernet according to IEEE802.3af 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 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 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 IEEE802.3af / 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 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 • 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	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 				
 ◆ 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 IP65 	·	20		
 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 	• .			
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 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 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		95 %		
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		When used under hazardous conditions (Zono 2), the SCALANCE		
Design, dimensions and weights	•	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		
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; 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 compo	nents / general
Product function / Access Point Mode	Yes
Product function / Client Mode	Yes
Number of SSIDs	4
Product function	
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	No
• 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	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iREF-capable radio modules	1
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	

 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	Yes
designation	
Product functions / Diagnostics	
Product function	
 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	
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	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
 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	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes	
Bureau Veritas (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	

Further information / Internet-Links

ı	Inte	rne	t_l	ink

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
 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

• to website: Industry Online Support

https://support.industry.siemens.com

Security information

Security information

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