## **SIEMENS**

## **Data sheet**

## 6GK5778-1GY00-0TB0



IWLAN access point, SCALANCE W778-1 M12 EEC, 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... 70 °C, plug slot WPA2/802.11i/e,conformal coating EN 50155, EN 45545, 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	
<ul><li>with WLAN / maximum</li></ul>	300 Mbit/s
<ul> <li>for Industrial Ethernet</li> </ul>	10, 100 Mbit/s
transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	100 Mbit/s
interfaces	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	2
<ul><li>for power supply</li></ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	1
type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	M12 interface (4-pole, D-coded), PoE
for power supply	M12 interface (4-pole, A-coded)
design of the removable storage	
• C-PLUG	Yes
KEY-PLUG	Yes
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	
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	16.8 V
supply voltage / 2	
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	31.2 V
supply voltage	
<ul> <li>from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	48 V
consumed current	

<ul><li>at DC / at 24 V / typical</li></ul>	0.25 A
with Power-over-Ethernet according to IEEE802.3at	0.125 A
for type 1 and IEEE802.3af / typical	
power loss [W]	0.11
• at DC / at 24 V / typical	6 W
<ul> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> </ul>	6 W
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-30 +75 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during	95 %
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
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
product feature / conformal coating	Yes
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
• 33 min top hat Birt rail mounting	103
wall mounting	Ves
wall mounting  radio frequencies	Yes
radio frequencies	Yes
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
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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals / general
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  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 / general 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  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 / general 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  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 / general 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  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 / general 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  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 / general 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  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 / general 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  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  / general  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-
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  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  / general  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  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  / general  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 W780 iFeatures' or '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  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	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals  / general  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'
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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC client  number of iPCF-capable radio modules	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals  / general  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 W780 iFeatures' or '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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC dient  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  / general  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  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  / general  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; 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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC dient  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  / general  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; 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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC dient  number of iPCF-capable radio modules  product function / iREF  number of iREF-capable radio modules  product function / iPRP  product functions / management, configuration, engineeri	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals  / general  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; In combination with the 'KEY-PLUG W780 iFeatures' on '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  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  product functions / management, configuration, engineeri 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  / general  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; In combination with the 'KEY-PLUG W780 iFeatures' on '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  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, engineeri number of manageable IP addresses / in client  product function	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals  / general  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; In combination with the 'KEY-PLUG W780 iFeatures' only ng 8
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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC dlient  number of iPCF-capable radio modules  product function / iREF  number of iREF-capable radio modules  product function / iPRP  product functions / management, configuration, engineeri number of manageable IP addresses / in client  product function  • CLI	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals  / general  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  ng  8  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  product function / Access Point Mode  product function / client Mode  number of SSIDs  product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC dlient  number of iPCF-capable radio modules  product function / iREF  number of iREF-capable radio modules  product function / iPRP  product functions / management, configuration, engineeri 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  / general  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; In combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures'  1  Yes; In combination with the 'KEY-PLUG W780 iFeatures' only  ng  8  Yes  Yes

<ul><li>configuration with STEP 7</li></ul>	Yes
<ul> <li>configuration with STEP 7 in the TIA Portal</li> </ul>	Yes
<ul> <li>operation with IWLAN controller</li> </ul>	No
<ul> <li>operation with Enterasys WLAN controller</li> </ul>	No
<ul> <li>forced roaming on IP down with IWLAN</li> </ul>	Yes
<ul> <li>forced roaming on link down with IWLAN</li> </ul>	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	res
	V
I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
• link check	No
<ul> <li>connection monitoring IP-Alive</li> </ul>	No
<ul> <li>localization via Aeroscout</li> </ul>	Yes
SysLog	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
	. 55
SNMP v3	Yes
SNMP v3  product functions / VI AN	Yes
product functions / VLAN	Yes
product functions / VLAN product function	
product functions / VLAN product function • function VLAN with IWLAN	Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP	
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function	Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client	Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client  • DHCP server	Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client	Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client  • DHCP server	Yes Yes Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client  • DHCP server  • DHCP Option 82  product functions / redundancy	Yes Yes Yes
product functions / VLAN  product function  • function VLAN with IWLAN  product functions / DHCP  product function  • DHCP client  • DHCP server  • DHCP Option 82	Yes Yes Yes
product functions / VLAN  product function  • 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 Yes
product functions / VLAN  product function  • 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 Yes
product functions / VLAN  product function  • 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 Yes
product functions / VLAN  product function  • 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 Yes
product functions / VLAN  product function  • 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
product functions / VLAN  product function  • 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 Yes
product functions / VLAN  product function  • 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
product functions / VLAN  product function	Yes
product functions / VLAN  product function	Yes
product functions / VLAN  product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product functions / VLAN  product function  • 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  • IEEE 802.1x (radius)  • NAT/NAPT  • access protection according to IEEE802.11i  • WPA/WPA2  • TKIP/AES  protocol / is supported	Yes
product functions / VLAN product function   • 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 • IEEE 802.1x (radius) • NAT/NAPT • access protection according to IEEE802.11i • WPA/WPA2 • TKIP/AES  protocol / is supported • SSH • RADIUS	Yes
product functions / VLAN  product function  • 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  • IEEE 802.1x (radius)  • NAT/NAPT  • access protection according to IEEE802.11i  • WPA/WPA2  • TKIP/AES  protocol / is supported  • SSH	Yes

• 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
<ul> <li>for safety / from CSA and UL</li> </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	
<ul> <li>EC Declaration of Conformity</li> </ul>	Yes
<ul> <li>CE marking</li> </ul>	Yes
• C-Tick	Yes
● E1 approval	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
<ul> <li>fire protection in accordance with EN 45545-2</li> </ul>	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	Yes
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	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	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
DNV GL	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes
Royal Institution of Naval Architects (RINA)	Yes
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
<ul> <li>to website: Information and Download Center</li> </ul>	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)

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