SIEMENS

Data sheet

6GK5778-1GY00-0TA0

product type designation



W778-1 M12 EEC

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 Mbps, 2x M12 max. 100 Mbps, PoE integrated 2-port switch, redundant 24 V DC, M12 A-coded IP65, -40...+75 °C, plug slot WPA2/802.11i/e,conformal coating EN 50155, EN45545, 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 • with WLAN / maximum • for industrial Ethernet • minimum • maximum 10 Mbit/s • for retwork components or terminal equipment • for power supply • for redundant voltage supply 1 * for retwork components or terminal equipment • for network components or terminal equipment • for power supply • for power supply • for power supply • for power supply • for termovable storage • c-P-LUG • kEY-P-LUG • Yes • linterfaces / wireless number of radio cards / permanently installed 1 transmission mode / for multiple input multiple output (MIMO) 2x2 number of spatial streams 2 number of spatial streams 2 number of spatial streams 2 number of electrical connections / for external antenna(s) 2 type of electrical connections / for external antenna(s) 2 type of electrical connection / for external antenna(s) 4 type of electrical connection / for external antenna(s) 4 type of voltage / of the supply voltage • from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3arf consumed current • at DC / at 24 V / yipical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at for type 1	transfer rate	
• for Industrial Ethernet transfer rate / for Industrial Ethernet • minimum • maximum 10 Mbit/s • maximum 100 Mbit/s Intorfaces number of electrical connections • for network components or terminal equipment • for redundant voltage supply 1 for redundant voltage supply 1 for network components or terminal equipment • for power supply M12 interface (4-pole, D-coded), PoE M12 interface (4-pole, A-coded) design of the removable storage • C-PLUG • KEY-PLUG • KEY-PLUG • KEY-PLUG • KEY-PLUG Interfaces (4-pole, A-coded) Ves • KEY-PLUG • Yes • C-PLUG • KEY-PLUG • Yes • KEY-PLUG Interfaces (4-pole, A-coded) Ves • Legislant of the removable storage • C-PLUG • KEY-PLUG • Yes • Legislant of the removable storage • C-PLUG • KEY-PLUG • Yes Interfaces (Wireless) number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spallal streams 2 number of electrical connections / for external antenna(s) 2 type of electrical connections / for external antenna(s) Ves supply voltage, current consumption, power loss supply voltage, current consumption, power loss supply voltage, current consumption, power loss supply voltage • from Power-over-Ethernet according 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 for 0.25 A • with Power-over-Ethernet according to IEEE802.3at for 0.25 A	transfer rate	
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minimum maximum minimum minim	for Industrial Ethernet	10, 100 Mbit/s
maximum interfaces number of electrical connections of or network components or terminal equipment for power supply of or redundant voltage supply type of electrical connection of no network components or terminal equipment of or power supply M12 interface (4-pole, D-coded), PoE M12 interface (4-pole, D-coded) design of the removable storage o-C-PLUG KEY-PLUG Yes memory design of the removable storage o-C-PLUG KEY-PLUG Yes interfaces / wireless 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 of mom Power-over-Ethernet according to IEEE802.3at for type 1 at DC / at 24 V / typical of the coordinate of the supply voltage of the DC / at 24 V / typical of the Canada antenna can be mounted directly on of the consumed current of the DC / at 24 V / typical of the Canada antenna can be coording to IEEE802.3at for of the Canada antenna coording to IEEE802.3at for of the Canada antenna canada to the Canada antenna coording to IEEE802.3at for of the Canada antenna canada to the Canada antenna coording to IEEE802.3at for of the Canada antenna canada to the Canada antenna canada coording to IEEE802.3at for of the Canada antenna canada to the Canada antenna canada canada antenna canada canada canada antenna canada c	transfer rate / for Industrial Ethernet	
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number of electrical connections • for network components or terminal equipment • for power supply • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for power supply for power supply • for power supply design of the removable storage • C-PLUG • KEY-PLUG * Yes • C-PLUG • KEY-PLUG * Yes • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes • C-PLUG • KEY-PLUG * Yes * Negranaently installed * transmission mode / for multiple input multiple output (MIMO) * 2x2 * number of spatial streams * 2 * number of electrical connections / for external antenna(s) * type of electrical connection / for external antenna(s) * type of electrical connection / for external antenna(s) * type of electrical connection / for external antenna(s) * type of voltage / of the supply voltage * supply voltage • for power-over-Ethernet according 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 IEEE802.3at for typ	• maximum	100 Mbit/s
• for network components or terminal equipment • for power supply • for redundant voltage supply type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-P-LUG • KEY-P-LUG • KEY-P-L	interfaces	
• for power supply • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG **MEY-PLUG **MEXP-PLUG	number of electrical connections	
• for redundant voltage supply type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG memory design of the removable storage • C-PLUG • KEY-PLUG memory design of the removable storage • C-PLUG • KEY-PLUG memory design of the removable storage • C-PLUG • KEY-PLUG multiple of the removable storage • C-PLUG • KEY-PLUG multiple of the removable storage • C-PLUG • KEY-PLUG momory design of the removable storage • C-PLUG • KEY-PLUG Total of the supply installed transmission mode / for multiple input multiple output (MIMO) 2x2 number of spatial streams 2 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 • from Power-over-Ethernet according 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 0.125 A • with Power-over-Ethernet according to IEEE802.3at for 0.125 A	 for network components or terminal equipment 	2
type of electrical connection • for network components or terminal equipment • for power supply design of the removable storage • C-PLUG • KEY-PLUG Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • C-PLUG • KEY-PLUG * Yes * Male storage • Male stora	for power supply	1
for network components or terminal equipment for power supply design of the removable storage C-PLUG KEY-PLUG memory design of the removable storage C-PLUG Yes interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) 2x2 number of spatial streams 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 of more power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af consumed current output feature / external antennal external ex	for redundant voltage supply	1
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design of the removable storage • C-PLUG • KEY-PLUG remory design of the removable storage • C-PLUG • C-PLUG • C-PLUG • KEY-PLUG Yes • KEY-PLUG Yes interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spatial streams 2 number of spatial streams 2 number of electrical connections / for external antenna(s) type of electrical connection / for external antenna(s) yred vice supply voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according 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 • with Power-over-Ethernet according to IEEE802.3at for • with Power-over-Ethernet according to IEEE802.3at for 0.125 A	 for network components or terminal equipment 	M12 interface (4-pole, D-coded), PoE
C-PLUG KEY-PLUG Yes memory design of the removable storage C-PLUG KEY-PLUG Yes interfaces / wireless 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) 2 type of electrical connection / for external antenna(s) yroduct feature / external antenna can be mounted directly on device supply voltage, current consumption, power loss type of voltage / of the supply voltage • from Power-over-Ethernet according 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 • with Power-over-Ethernet according to IEEE802.3at for • with Power-over-Ethernet according to IEEE802.3at for 0.125 A	• for power supply	M12 interface (4-pole, A-coded)
KEY-PLUG Yes design of the removable storage C-PLUG KEY-PLUG Yes KEY-PLUG Yes interfaces / wireless 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	design of the removable storage	
design of the removable storage • C-PLUG • KEY-PLUG interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spatial streams number of electrical connections / for external antenna(s) type of electrical connection / 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 • from Power-over-Ethernet according 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 with Power-over-Ethernet according to IEEE802.3at for 0.125 A	• C-PLUG	Yes
design of the removable storage • C-PLUG • KEY-PLUG interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) number of spatial streams 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 • from Power-over-Ethernet according 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 0.125 A	• KEY-PLUG	Yes
C-PLUG KEY-PLUG KEY-PLUG Interfaces / wireless number of radio cards / permanently installed 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 supply voltage, current consumption, power loss type of voltage / of the supply voltage from Power-over-Ethernet according 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 0.125 A with Power-over-Ethernet according to IEEE802.3at for 0.125 A	memory	
KEY-PLUG Yes Interfaces / wireless number of radio cards / permanently installed transmission mode / for multiple input multiple output (MIMO) 2x2 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 of moreover-Ethernet according 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 0.125 A	design of the removable storage	
number of radio cards / permanently installed 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 supply voltage, current consumption, power loss type of voltage / of the supply voltage	• C-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 of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af consumed current o at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for 0.125 A	• KEY-PLUG	Yes
transmission mode / for multiple input multiple output (MIMO) number of spatial streams 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 of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af consumed current of at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for 0.125 A	interfaces / wireless	
number of spatial streams 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 of from Power-over-Ethernet according 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 0.125 A output 0.25 A 0.125 A	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 • from Power-over-Ethernet according 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 0.125 A	transmission mode / for multiple input multiple output (MIMO)	2x2
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 of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af consumed current of at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for 0.125 A	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 of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af consumed current of at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for 0.125 A	number of electrical connections / for external antenna(s)	2
device supply voltage, current consumption, power loss type of voltage / of the supply voltage of the supply vo	type of electrical connection / for external antenna(s)	N-Connect (socket)
type of voltage / of the supply voltage supply voltage • from Power-over-Ethernet according 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 0.125 A		Yes
supply voltage • from Power-over-Ethernet according 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 0.25 A 0.125 A	supply voltage, current consumption, power loss	
• from Power-over-Ethernet according 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 0.25 A 0.125 A	type of voltage / of the supply voltage	DC
type 1 and IEEE802.3af consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for 0.25 A 0.125 A	supply voltage	
 at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for 0.25 A 0.125 A 		48 V
with Power-over-Ethernet according to IEEE802.3at for 0.125 A	consumed current	
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802 3at / typical 0.125 A	• at DC / at 24 V / typical	0.25 A
ιγρε τ απα τεμεσύζεισα / ιγρισα	 with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical 	0.125 A
power loss [W]	power loss [W]	

• at DC / at 24 V / typical	6 W
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE803.3af / typical	6 W
type 1 and IEEE802.3af / typical	
supply voltage / 1	40.01/
 from M12 Power Connector (A-coded) for redundant power supply 	16.8 V
supply voltage / 2	
	24.2.1/
 from M12 Power Connector (A-coded) for redundant power supply 	31.2 V
ambient conditions	
ambient temperature	
·	-40 +75 °C
during operation	
during storage	-40 +85 °C
• during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W778-1
ambient condition / for operation	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
·	0.95 kg
net weight	Š
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
wall mounting	Yes
undia functionalisa	
radio frequencies	
operating frequency	
•	2.41 2.48 GHz; depending on the country approvals
operating frequency	2.41 2.48 GHz; depending on the country approvals 4.9 5.8 GHz; depending on the country approvals
operating frequency • for WLAN in 2.4 GHz frequency band	4.9 5.8 GHz; depending on the country approvals
operating frequency	4.9 5.8 GHz; depending on the country approvals
operating frequency	4.9 5.8 GHz; depending on the country approvals
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4 Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
operating frequency	4.9 5.8 GHz; depending on the country approvals eral Yes Yes 4
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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'
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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'
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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'
operating frequency	4.9 5.8 GHz; depending on the country approvals 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'
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	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' 1 Yes; In combination with the 'KEY-PLUG W780 iFeatures' on 'KEY-PLUG W740 iFeatures'
operating frequency	4.9 5.8 GHz; depending on the country approvals 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	4.9 5.8 GHz; depending on the country approvals 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
operating frequency	4.9 5.8 GHz; depending on the country approvals 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 8 Yes Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals 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 8 Yes Yes Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals 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 8 Yes Yes Yes Yes
operating frequency	4.9 5.8 GHz; depending on the country approvals 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 8 Yes Yes Yes

	N
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 designation	Yes
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	
	V
function VLAN with IWLAN	Yes
• function VLAN with IWLAN product functions / DHCP	res
	res
product functions / DHCP	Yes
product functions / DHCP product function	
product functions / DHCP product function • DHCP client	Yes
product functions / DHCP product function • DHCP client • DHCP server	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy	Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported	Yes Yes Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP	Yes Yes Yes
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
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
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
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 / 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
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
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	Yes
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)	Yes
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	Yes
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	Yes
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	Yes
product functions / DHCP product function • DHCP client • DHCP server • DHCP Option 82 product functions / redundancy protocol / is supported • STP/RSTP • MSTP • 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 / 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 / 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 product functions / time	Yes
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 product functions / time protocol / is supported	Yes
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 product functions / time protocol / is supported • NTP	Yes
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 product functions / time protocol / is supported • NTP • SNTP	Yes
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 product functions / time protocol / is supported NTP SNTP SIMATIC time synchronization (SIMATIC Time)	Yes
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 product functions / time protocol / is supported • NTP • SNTP	Yes

• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
certificate of suitability	
EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
 railway application in accordance with EN 50155 	Yes
railway application in accordance with EN 50121-4	Yes
fire protection in accordance with EN 45545-2	Yes
NEMA TS2	No
• IEC 61375	No
• IEC 61850-3	No
• NEMA4X	
	No Voc
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	
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	
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	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)
ast modified:	5/27/2023 🗗