# **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  ininimum  naximum  10 Mbit/s  interfaces  number of electrical connections  for network components or terminal equipment  for power supply  for redundant voltage supply  1ype of electrical connection  for network components or terminal equipment  for power supply  for redundant voltage supply  1ype of electrical connection  for network components or terminal equipment  for power supply  design of the removable storage  C-PLUG  KEY-PLUG  Wes  KEY-PLUG  Tes  New Yes  REY-PLUG  Tes  New Yes  New Ye	transfer rate	
	transfer rate	
transfer rate / for Industrial Ethernet  • minimum  • maximum  100 Mbit/s  Interfaces  number of electrical connections  • for network components or terminal equipment • for redundant voltage supply 1 type of electrical connection • for network components or terminal equipment • for power supply M12 interface (4-pole, D-coded), PoE  • for power supply M12 interface (4-pole, A-coded)  design of the removable storage • C-P-LUG • KEY-P-LUG • KEY-P-LUG • KEY-P-LUG • KEY-P-LUG • Yes  **Interfaces / wireless  number of radio cards / permanently installed 1 transmission mode / for multiple input multiple output (MIMO) 2x2  number of spatial streams 2 type of electrical connections / for external antenna(s) 2 type of electrical connection / for external antenna(s) 2 type of oltage , surrent consumption, power loss  **Uppe of voltage, surrent consumption, power loss  Type of voltage / of the supply voltage • from 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	<ul><li>with WLAN / maximum</li></ul>	300 Mbit/s
minimum maximum mitorfaces  number of electrical connections  for network components or terminal equipment for power supply for nedundant voltage supply for network components or terminal equipment for power supply for minimal power loss for power supply for powe	for Industrial Ethernet	10, 100 Mbit/s
• maximum         100 Mbit/s           Interfaces           number of electrical connections         • for network components or terminal equipment         2           • for power supply         1           • for power supply         1           type of electrical connection         M12 Interface (4-pole, D-coded), PoE           • 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           • C-PLUG         Yes           • KEY-PLUG         Yes           • KEY-PLUG         Yes           • KEY-PLUG         Yes           interfaces / wireless         Interfaces / wireless           number of radio cards / permanently installed         1           transmission mode / for multiple input multiple output (MIMO)         2x2           number of electrical connection / for external antenna(s)         2           type of electrical connection / for external antenna(s)         N-Connect (socket)           type of electrical connection / for external antenna (s)         Yes           supply voltage, current consumption, power loss         type of voltage / of the supply voltage         DC           supply voltage / of the supply voltage	transfer rate / for Industrial Ethernet	
Interfaces  number of electrical connections  • for network components or terminal equipment • for power supply • for redundant voltage supply 1  • for redundant voltage supply 1  type of electrical connection • for network components or terminal equipment • for power supply M12 interface (4-pole, D-coded), PoE • for power supply M12 interface (4-pole, D-coded)  design of the removable storage • C-PLUG • KEY-PLUG • Yes  memory  design of the removable storage • C-PLUG • KEY-PLUG • Yes  interfaces / wireless  number of radio cards / permanently installed 1 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)  Type of electrical connection / for external antenna(s)  Type of voltage / of the supply voltage • from 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	• minimum	10 Mbit/s
number of electrical connections  • for network components or terminal equipment 2	• maximum	100 Mbit/s
• 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 network components or terminal equipment • for power supply design of the removable storage • C-P-LUG • KEY-P-LUG • KEY-P-LUG • Yes • LEY-P-LUG • LEY-P-LUG • LEY-P-LUG • Yes • LEY-P-LUG • 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-P-LUG • KEY-PLUG  * Yes  * C-P-LUG  * Yes  * C-P-LUG  * Yes  * C-P-LUG  * Yes  * Yes	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  * Yes  • KEY-PLUG  * Yes  • KEY-PLUG  * Yes  • KEY-PLUG  * Yes  • LUG  • KEY-PLUG  * Yes  • LOPELUG  • Yes  • LOPELUG  • LUG  • KEY-PLUG  * Yes  • LOPELUG	<ul> <li>for network components or terminal equipment</li> </ul>	2
type of electrical connection  • for network components or terminal equipment  • for power supply  design of the removable storage  • C-PLUG  • KEY-PLUG  * Yes  • KEY-PLUG  * Yes  • Lest a consumed current  • Consumed current  • A to / ya ta de lest essocial of the supply voltage  • Consumed current  • A to / at 24 V / typical  • With Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	<ul><li>for power supply</li></ul>	1
for network components or terminal equipment     for power supply     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)         2x2         number of spatial streams         2         number of electrical connections / for external antenna(s)         type of electrical connection / for external antenna(s)         N-Connect (socket)         yes         Supply voltage, current consumption, power loss         type of voltage / of the supply voltage	<ul> <li>for redundant voltage supply</li> </ul>	1
• for power supply  design of the removable storage • C-PLUG • KEY-PLUG  NEMOTY  design of the removable storage • C-PLUG • KEY-PLUG  Tyes • C-PLUG • C-PLUG • Yes • C-PLUG • KEY-PLUG  NEW Yes • C-PLUG • KEY-PLUG  NEW 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  • from 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  0.125 A	type of electrical connection	
design of the removable storage  • C-PLUG  • KEY-PLUG  Memory  design of the removable storage  • C-PLUG  • KEY-PLUG  Ves  *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  • from 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	• 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) 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 of from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  evith Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  over the supply voltage 0.125 A 0.125 A 0.125 A	• for power supply	M12 interface (4-pole, A-coded)
■ KEY-PLUG     Memory  design of the removable storage	design of the removable storage	
design of the removable storage  • C-PLUG  • KEY-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 type 1 and IEEE802.3af / typical	• C-PLUG	Yes
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)  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 / typical  • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  0.25 A  0.125 A	• KEY-PLUG	Yes
C-PLUG 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) 2 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  at DC / at 24 V / typical with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  at DC / at 24 V / typical	memory	
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  of more Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3at / typical  with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  0.25 A  0.125 A	design of the removable storage	
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 rom 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 type 1 and IEEE802.3af / typical	• C-PLUG	Yes
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  of rom Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af  outper 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	• 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 rom 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 type 1 and IEEE802.3af / typical  with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	interfaces / wireless	
number of spatial streams  number of electrical connections / for external antenna(s)  type of electrical connection / for external antenna(s)  N-Connect (socket)  Yes  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  of rom 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 type 1 and IEEE802.3af / typical  voltage / 0.125 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  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 type 1 and IEEE802.3af / typical  with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical  0.25 A  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 type 1 and IEEE802.3af / typical  of type 1 and IEEE802.3af / typical  of type 1 and IEEE802.3af / typical	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  • 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 / typical  • at DC / at 24 V / typical  • output Development of the supply voltage  0.25 A  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  • 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 / typical	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 type 1 and IEEE802.3af / typical  0.25 A  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 type 1 and IEEE802.3af / typical  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 type 1 and IEEE802.3af / typical          • 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 type 1 and IEEE802.3af / typical  0.25 A  0.125 A	supply voltage	
<ul> <li>at DC / at 24 V / typical</li> <li>with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical</li> <li>0.25 A</li> <li>0.125 A</li> </ul>		48 V
with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical      0.125 A	consumed current	
type 1 and IEEE802.3af / typical	• at DC / at 24 V / typical	0.25 A
L DAG		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 IEEE802.3af / typical.	6 W
type 1 and IEEE802.3af / typical	
supply voltage / 1	16.0 \/
<ul> <li>from M12 Power Connector (A-coded) for redundant power supply</li> </ul>	16.8 V
supply voltage / 2	
• from M12 Power Connector (A-coded) for redundant	31.2 V
power supply	V
ambient conditions	
ambient temperature	
during operation	-40 +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
protection class IP	degree of protection according to EN 60529 within the scope of EN 50021.
protection class IP	IP65
design, dimensions and weights	440
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
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 components / gen	
1	
product function / Access Point Mode	Yes
product function / Access Point Mode	Yes Yes
product function / client Mode	Yes
product function / client Mode number of SSIDs	
product function / client Mode number of SSIDs product function	Yes 4
product function / client Mode number of SSIDs product function • iPCF Access Point	Yes  4  Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
product function / client Mode number of SSIDs product function	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
product function / client Mode number of SSIDs product function	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'
product function / client Mode number of SSIDs product function	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
product function / client Mode number of SSIDs product function	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'
product function / client Mode number of SSIDs product function	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
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF client  • iPCF-MC Access Point  • iPCF-MC client	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'
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	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
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	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
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF client  • iPCF-MC Access Point  • iPCF-MC dient  number of iPCF-capable radio modules product function / iREF	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'
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF client  • iPCF-MC Access Point  • iPCF-MC dient  number of iPCF-capable radio modules product function / iREF  number of iREF-capable radio modules	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'
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC decess Point  • iPCF-MC client  number of iPCF-capable radio modules product function / iREF  number of iREF-capable radio modules product function / iPRP	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'
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 product function / iREF  number of iREF-capable radio modules product function / iPRP product functions / management, configuration, engineering	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
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, engineering number of manageable IP addresses / in client	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
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC decess Point  • iPCF-MC decess Point  • iPCF-MC decess Point  • iPCF-MC decess Point  number of iPCF-capable radio modules product function / iREF  number of iREF-capable radio modules product function / iPRP  product functions / management, configuration, engineering number of manageable IP addresses / in client product function	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
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 product function / iREF  number of iREF-capable radio modules product function / iPRP  product functions / management, configuration, engineering number of manageable IP addresses / in client product function  • CLI • web-based management	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
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 product function / iREF  number of iREF-capable radio modules product function / iPRP  product function / iPRP  product functions / management, configuration, engineering number of manageable IP addresses / in client product function  • CLI • web-based management • MIB support	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
product function / client Mode number of SSIDs product function  • iPCF Access Point  • iPCF-MC Access Point  • iPCF-MC decess Point  • iPCF-MC client  number of iPCF-capable radio modules product function / iREF  number of iREF-capable radio modules product function / iPRP  product function / iPRP  product function / management, configuration, engineering number of manageable IP addresses / in client product function  • CLI  • web-based management  • MIB support  • TRAPs via email	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
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 product function / iREF  number of iREF-capable radio modules product function / iPRP  product function / iPRP  product functions / management, configuration, engineering number of manageable IP addresses / in client product function  • CLI • web-based management • MIB support	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

<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	
<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	Yes
• ICMP	Yes
Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	165
I&M0 - device-specific information	Yes
•	
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function	Ver
PROFINET IO diagnosis	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
• SNMP v3	Yes
product functions / VLAN	
product function	
<ul> <li>function VLAN with IWLAN</li> </ul>	Yes
product functions / DHCP	
product functions / DHCP product function	
	Yes
product function	Yes Yes
product function  • DHCP client  • DHCP server	Yes
product function  • DHCP client  • DHCP server  • DHCP Option 82	
product function	Yes
product function  • DHCP client  • DHCP server  • DHCP Option 82  product functions / redundancy  protocol / is supported	Yes Yes
product function  • DHCP client  • DHCP server  • DHCP Option 82  product functions / redundancy  protocol / is supported  • STP/RSTP	Yes Yes Yes
product function  • DHCP client  • DHCP server  • DHCP Option 82  product functions / redundancy  protocol / is supported  • STP/RSTP  • MSTP	Yes Yes Yes Yes
product function  • DHCP client  • DHCP server  • DHCP Option 82  product functions / redundancy  protocol / is supported  • STP/RSTP  • MSTP  • RSTP	Yes Yes Yes
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
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
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
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
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 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 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 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 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 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 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
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 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
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 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 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 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 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 SIMATIC time synchronization (SIMATIC Time)	Yes

● for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety / from CSA and UL	UL 61010-2-201 E85972, CSA C22.2 no. 60950-1
certificate of suitability	
EC Declaration of Conformity	Yes
CE marking	Yes
• C-Tick	Yes
● E1 approval	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	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
<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
standards, specifications, approvals / marine classification	, and the second se
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 60070 15:2005 EN 60070 0:2006 II 2 C Ex pA II TA KEMA 07 ATEV
• from CSA and UL	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X  ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A,
- 10.11 00/10.110	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
<ul><li>to web page: selection aid TIA Selection Tool</li></ul>	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
<ul><li>to website: CAx-Download-Manager</li></ul>	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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