# **SIEMENS**

## Data sheet

6GK5712-0XC00-1AA0

## Product type designation

Product description

Supports Access Points SCALANCE W786C, W788C IWLAN controller, SCALANCE WLC712, for 16 access points, expandable to 48 access points Redundant up to 96, Layer 3 roaming; VoIP support, load distribution, internal captive portal, observe national approvals! for operation outside of North America and Japan



Suitability for use

Basic license for 16 Access Points preinstalled, can be estended with up to 2 Capacity Upgrade License Key WLC-700

Transmission rate	
Transfer rate	
• for Industrial Ethernet	10, 100, 1000 Mbit/s
Transfer rate / for Industrial Ethernet	
• minimum	10 Mbit/s
• maximum	1000 Mbit/s

Interfaces	
Number of electrical connections	
• for network components or terminal equipment	2
• for power supply	1
Type of electrical connection	
• for network components or terminal equipment	RJ45 socket
• for power supply	2-pole screw terminal

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1	
<ul> <li>from terminal block</li> </ul>	24 V
Consumed current	
• at DC / at 24 V / typical	4 A
Power loss [W]	
• at DC / at 24 V / typical	20 W
Permitted ambient conditions	

Permitted ambient conditions	
Ambient temperature	
<ul> <li>during operation</li> </ul>	5 40 °C
during storage	-40 +60 °C
during transport	-40 +60 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight	
Width	262 mm
Height	142 mm
Depth	47 mm
Net weight	2 kg
Mounting type	Wall mounting using the supplied mounting brackets
<ul><li>wall mounting</li></ul>	Yes

Product functions / management, configuration	
Product function	
• CLI	Yes
<ul><li>web-based management</li></ul>	Yes
MIB support	Yes
• WDS	Yes
Protocol / is supported	
<ul> <li>Address Resolution Protocol (ARP)</li> </ul>	No
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	No
• LLDP	No

Product functions / Diagnosis	
Product function	
<ul><li>SysLog</li></ul>	Yes
Protocol / is supported	

Product functions / VLAN Product function   • function VLAN with IWLAN   Product function   • function VLAN with IWLAN   Product function   • function VLAN with IWLAN   Product function   • DHCP client   Product function   • DHCP client   Product function   • EIEE 802.1x (radius)   • NAT/NAPT   • Access protection according to IEEE802.11i   • WPAWPA2   • TIKIP/AES   Protocol / is supported   • SSH   Product functions / Time Protocol / is supported   • NTP   • SNTP   • SNTP   • SNTP   • SIMATIC Time   No  Product functions / IWLAN controller Number of supported access points   • in standard mode with one IWLAN controller   • In redundancy mode with two IWLAN   • ontrollers   Number of VINS segments / per IWLAN controller   Number of VINS segments / per IWLAN controller   Number of VINS segments / per IWLAN controller   Product function   • of the IWLAN controller   Number of VINS segments / per IWLAN controller   Number of VINS segments / per IWLAN controller   Number of VINS segments / per IWLAN controller   Product function   • of the IWLAN controller   Number of VINS segments / per IWLAN controller   Product function   • of the IWLAN controller   VINS segments / per IWLAN controller   Product function   • Of the IWLAN controller   VINS segments / per IWLAN controller   Product function   • Of the IWLAN controller   VINS segments / per IWLAN controller   VINS	• SNMP v2	Yes
Product function VLAN with IWLAN  Product functions / DHCP  Product functions / DHCP  Product functions / Security  Product functions / Security  Product functions  • IEEE 802.1x (radius)  • IEEE 802.1x (radius)  • No  • NAT/NAPT  • access protection according to IEEE802.11i  • WPAWPA2  • TKIP/AES  • Yes  Protocol / is supported  • SSH  Protocol / is supported  • SSH  Product functions / Time  Protocol / is supported  • NTP  • SIMTP  • SIMTP  • SIMATIC Time  No  Product functions / IWLAN controller  Number of supported access points  • in redundancy mode with one IWLAN controller  • in redundancy mode with two IWLAN  controllers  Number of VNS segments / per IWLAN controller  • of the IWLAN controller  Product function  • of the IWLAN controller  Product function  • of the IWLAN controller  * If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting	• SNMP v3	Yes
Product function VLAN with IWLAN  Product functions / DHCP  Product functions / DHCP  Product functions / Security  Product functions / Security  Product functions  • IEEE 802.1x (radius)  • IEEE 802.1x (radius)  • No  • NAT/NAPT  • access protection according to IEEE802.11i  • WPAWPA2  • TKIP/AES  • Yes  Protocol / is supported  • SSH  Protocol / is supported  • SSH  Product functions / Time  Protocol / is supported  • NTP  • SIMTP  • SIMTP  • SIMATIC Time  No  Product functions / IWLAN controller  Number of supported access points  • in redundancy mode with one IWLAN controller  • in redundancy mode with two IWLAN  controllers  Number of VNS segments / per IWLAN controller  • of the IWLAN controller  Product function  • of the IWLAN controller  Product function  • of the IWLAN controller  * If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting		
Product functions / DHCP Product function DHCP client No Product function DHCP client No Product functions / Security Product function I EEEE 802 1x (radius) I SEEE 802 1x (radius) I SEE 802 1x (radius) I SEEE 802 1x (radius) I SEE 80		
Product functions / DHCP Product function  DHCP client  No  Product functions / Security  Product function  EEEE 802.1x (radius)  No  No  No  No  No  No  No  No  No  N		Ves
Product functions / Security  Product functions / Security  Product function  IEEE 802.1x (radius)  RATINAPT  Access protection according to IEEE802.11i  WPAMPA2  TKIP/AES  Protocol / is supported  SSH  Product functions / Time  Product functions / Time  Product functions / Time  Protocol / is supported  No  SIMATIC Time  No  Product functions / IWLAN controller  No  Product functions / WLAN controller  In standard mode with one IWLAN controller  In in redundancy mode with two IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  If delivered with basic license, 16 access points in standard mode and 92 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. Yes  Pre-standard (CAPWAP)  integrated VLAN-VNS  auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes	Tunction VEAN With IWEAN	163
Product functions / Security  Product function  IEEE 802.1x (radius) No ANT/NAPT Access protection according to IEEE802.11i WPAWPA2 TKIP/AES Protocol / is supported SSH  Product functions / Time  Protocol / is supported NTP SIMATIC Time  Product functions / IVLAN controller Number of supported access points in standard mode with one IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of Sybparents / per IWLAN controller  Product function  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  e auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes		
Product functions / Security  Product function  IEEE 802.1x (radius)  No  Access protection according to IEEE802.11i  WPAMPA2  TKIP/AES  Protocol / is supported  SSH  Yes  Product functions / Time  Protocol / is supported  NTP  SIMATIC Time  Product functions / WLAN controller  Number of supported access points  in redundancy mode with one IWLAN controller  in redundancy mode with one IWLAN controller  Number of supported WLAN clients / per IWLAN  controllers  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of tynosements / per IWLAN controller  Number of supported WLAN controller  Number of supported WLAN clients / per IWLAN  controllers  Number of tynosements / per IWLAN controller  Number of tynosements / per IWLAN controller  Number of supported WLAN controller  Number of supported WLAN clients / per IWLAN  controller  Number of supported WLAN clients / per IWLAN  controller  Number of supported WLAN clients / per IWLAN  controller  Number of supported WLAN clients / per IWLAN  controller  Number of supported WLAN clients / per IWLAN  controller  Product function  • of the IWLAN controller  * Between the faccess points can operated in standard mode and 32 access points can operated in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  Yes  • CDR/RADIUS accounting	Product function	
Product function  IEEE 802.1x (radius)  No  NAT/NAPT  Access protection according to IEEE802.11i  Yes  WPAWPA2  TKIP/AES  Protocol / is supported  SSH  Yes  Product functions / Time  Protocol / is supported  NTP  SIMATIC Time  Product functions / IWLAN controller  No  Product functions / IWLAN controller  No  Product functions / IWLAN controller  No  Product functions / IWLAN controller  Number of supported access points  in standard mode with one IWLAN controller  in redundancy mode with two IWLAN  controllers  Number of supported WLAN clients / per IWLAN  controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  e auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes	DHCP client	No
IEEE 802.1x (radius)  No  NAT/NAPT  Access protection according to IEEE802.11i  WPAWPA2  TKIP/AES  Protocol / is supported  SSH  Product functions / Time  Protocol / is supported  NTP  SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  in redundancy mode with two IWLAN  controllers  Number of Supported WLAN clients / per IWLAN  ontroller  Number of Supported WLAN controller  in redundancy mode with two IWLAN  controllers  Number of Supported WLAN clients / per IWLAN  controllers  Number of Supported WLAN clients / per IWLAN  controller  Number of VNS segments / per IWLAN controller  ### If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes	Product functions / Security	
No ACTIONAPT  access protection according to IEEE802.11i  WPA/WPA2  TKIP/AES  Protocol / is supported SSH  Product functions / Time  Protocol / is supported NTP SIMATIC Time  Product functions / WLAN controller  Number of supported access points in standard mode with one IWLAN controller in redundancy mode with two IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  Product function  Product function  Product function  of the IWLAN controller  Product function  Product function  of the IWLAN controller  Product function  Product function  of the IWLAN controller  Product function  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points in standard mode and 36 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  eintegrated VLAN-VNS  out-of-the-index of-the-index of	Product function	
access protection according to IEEE802.11i WPAWPA2 TKIP/AES Yes  Protocol / is supported SSH Yes  Product functions / Time  Protocol / is supported NTP SIMATIC Time  Product functions / WLAN controller  Number of supported access points in redundancy mode with two IWLAN controller  Number of SVP or IWLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. Pre-standard (CAPWAP)  integrated VLAN-VNS  auto-detection of new access points  Yes  CDR/RADIUS accounting	• IEEE 802.1x (radius)	Yes
WPAWPA2 TKIP/AES TRIP/AES  Protocol / is supported SSH  Product functions / Time  Protocol / is supported  NTP SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  in redundancy mode with two IWLAN controller  Number of Supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  Product function  Product function  of the IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  integrated VLAN-VNS  auto-detection of new access points  CDR/RADIUS accounting  Yes	• NAT/NAPT	No
• TKIP/AES  Protocol / is supported  • SSH  Product functions / Time  Protocol / is supported  • NTP  • SIMP  • SIMP  • SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  • of the IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operated in standard mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode and 96 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode. Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  Yes	• access protection according to IEEE802.11i	Yes
Protocol / is supported  • SSH  Yes  Product functions / Time  Protocol / is supported  • NTP  • SNTP  • SNTP  • SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controller  • in redundancy mode with two IWLAN controller  • in redundancy mode with two IWLAN controller  • in redundancy mode with one IWLAN controller  • of the IWLAN controller  Number of VNS segments / per IWLAN controller  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operate in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  Yes	• WPA/WPA2	Yes
Product functions / Time  Protocol / is supported  NTP SNTP SIMATIC Time  Product functions / IWLAN controller  Number of supported access points in redundancy mode with one IWLAN controller in redundancy mode with two IWLAN controller supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of Supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode and 96 access points in redundant mode.  Pre-standard (CAPWAP) integrated VLAN-VNS integrated V	• TKIP/AES	Yes
Product functions / Time  Protocol / is supported  • NTP  • SNTP  • SNTP  No  • SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  • of the IWLAN controller  • of the IWLAN controller  • Product function  • of the IWLAN controller  • Pre-standard (CAPWAP) • integrated VLAN-VNS • integrated VLAN-VNS • auto-detection of new access points • CDR/RADIUS accounting  Yes  Yes  • CDR/RADIUS accounting	Protocol / is supported	
Protocol / is supported  • NTP  • SNTP  • SIMATIC Time  Product functions / IWLAN controller  Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controller  • in redundancy mode with two IWLAN gentrollers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  Yes	• SSH	Yes
NTP SNTP SIMATIC Time No  Product functions / IWLAN controller  Number of supported access points in standard mode with one IWLAN controller in redundancy mode with two IWLAN controller in redundancy mode with two IWLAN controller supported WLAN clients / per IWLAN controller  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP) integrated VLAN-VNS integrated VLAN-VNS auto-detection of new access points Yes CDR/RADIUS accounting  Yes	Product functions / Time	
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SIMATIC Time  No  Product functions / IWLAN controller  Number of supported access points  in standard mode with one IWLAN controller  in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP) integrated VLAN-VNS  integrated VLAN-VNS  auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes	• NTP	Yes
Product functions / IWLAN controller  Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  Yes  • CDR/RADIUS accounting  Yes	• SNTP	No
Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  48  48  48  48  48  48  48  48  48  4	• SIMATIC Time	No
Number of supported access points  • in standard mode with one IWLAN controller  • in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  48  48  48  48  48  48  48  48  48  4	Product functions / IWLAN controller	
in redundancy mode with two IWLAN controllers  Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operated in standard mode and 32 access points in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  Pre-standard (CAPWAP)  integrated VLAN-VNS  auto-detection of new access points  Yes  CDR/RADIUS accounting  Yes		
Number of supported WLAN clients / per IWLAN controller  Number of VNS segments / per IWLAN controller  Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  Yes	• in standard mode with one IWLAN controller	48
Number of VNS segments / per IWLAN controller  Product function  ● of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  ● Pre-standard (CAPWAP)  ● integrated VLAN-VNS  ● auto-detection of new access points  ● CDR/RADIUS accounting  Yes	•	96
Product function  • of the IWLAN controller  If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  Yes		512
<ul> <li>of the IWLAN controller</li> <li>If delivered with basic license, 16 access points can operated in standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.</li> <li>Pre-standard (CAPWAP)</li> <li>integrated VLAN-VNS</li> <li>auto-detection of new access points</li> <li>CDR/RADIUS accounting</li> </ul> Yes Yes	Number of VNS segments / per IWLAN controller	8
standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard mode and 96 access points in redundant mode.  • Pre-standard (CAPWAP)  • integrated VLAN-VNS  • auto-detection of new access points  • CDR/RADIUS accounting  standard mode and 32 access points can operate in redundant mode.  Yes  Yes	Product function	
<ul> <li>integrated VLAN-VNS</li> <li>auto-detection of new access points</li> <li>CDR/RADIUS accounting</li> <li>Yes</li> </ul>	of the IWLAN controller	standard mode and 32 access points can operate in redundant mode. A capacity upgrade permits 48 access points in standard
<ul> <li>auto-detection of new access points</li> <li>CDR/RADIUS accounting</li> <li>Yes</li> </ul>	<ul><li>Pre-standard (CAPWAP)</li></ul>	Yes
• CDR/RADIUS accounting  Yes	• integrated VLAN-VNS	Yes
	• auto-detection of new access points	Yes
Dynamic Radio Management     Yes	<ul> <li>CDR/RADIUS accounting</li> </ul>	Yes
	Dynamic Radio Management	Yes

Load distribution function	DRM (Dynamic Radio/ RF Management), Packet Fairness, Flexible Client Access (Airtime Fairness), Load Balancing, Band- Steering
Product function	
<ul> <li>VoIP QoS mapping (DSCP/TCP-on-WMM)</li> </ul>	Yes
<ul> <li>VoIP roaming between IP subnets</li> </ul>	Yes
<ul> <li>VoIP roaming between several IWLAN controllers</li> </ul>	Yes
Backup function for IWLAN controller	Redundancy mode with two IWLAN controllers (with full capacity upgrade for both controllers, both controllers can be operated with 48 access points each. If one controller fails, the remaining controller can handle 96 access points.)
Switching function	Traffic bridged at controller/traffic bridged locally at wireless access point
Design of the interface / for public network access	Internal captive portal (web redirection)
Standards, specifications, approvals	
Standard	
for safety / from CSA and UL	UL 60950-1 CSA C22.2 No. 60950-1, UL 508 CAN/CSA C22.2 No. 142
Certificate of suitability	
<ul> <li>EC declaration of conformity</li> </ul>	Yes
• CE marking	Yes
• C-Tick	Yes
● E1 approval	No
• NEMA4X	No
<ul> <li>Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af</li> </ul>	No
<ul> <li>Power-over-Ethernet according to IEEE802.3at for type 2</li> </ul>	No
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
Accessories	
accessories	24 V DC screw terminal and 2 mounting brackets included in the scope of delivery
Further Information / Internet Links	

#### Internet-Link

• to website: TIA Selection Tool

to the website: IWLANto website: Industry Mall

• to website: Information and Download Center

• to website: Image database

to website: CAx Download Managerto website: Industry Online Support

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/iwlan

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

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. Thirdparty 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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