

SIMATIC NET

Industrial Wireless LAN – Radio – Country – Approvals for IWLAN Devices









2019-07-16



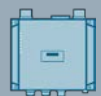

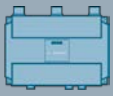



Approvals for **Simatic Ident** products can be found:









<http://www.siemens.com/rfid-approvals>









Approvals for **Simatic Net mobile network** products can be found:

<http://www.siemens.com/mobilenetwork-approvals>

Product group with approved antennas	IEEE 802.11n						802.11ac	
	 <u>SCALANCE W760</u> with <u>ANT 1</u>	 <u>SCALANCE W770</u> with <u>ANT 1</u>	 <u>SCALANCE W770 IP65</u> with <u>ANT 1</u>	 <u>SCALANCE W786 RJ45 / W786 SFP</u> with <u>ANT 2</u>	 <u>SCALANCE W788 M12 / W788 RJ45</u> with <u>ANT 2</u>	 <u>SCALANCE WLC-700/ W78xC</u> with <u>ANT 2</u>	 <u>SCALANCE W1780</u> <u>ANT3</u>	 <u>SCALANCE W1750D</u>
Afghanistan								•
Albania	•	•	•	•	•			•
Algeria		•						•
American Samoa	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)			•
Angola	•	•	•	•	•	•		•
Argentina	•(6)	•(6)		•(14)	•(14)	•(14)		•
Australia	•	•	•(6)	•	•	•	•	•
Azerbaijan		•						
Bahamas	•(8)	•(8)	•(8)	•(8)	•(8)	•(2,8)		•(1)
Bahrain	•	•	•(6)	•	•	•		•
Bangladesh								•
Belarus	•	•	•(6)	•	•	•		
Bosnia a. Herzegowina	•(9)	•	•(6)	•	•	•	•	•
Brazil	•(5,6,7)	•(5,6,7)	•(5,6,7)	•(5,6,7)	•(5,6,7)	•(5,6,7)		•
Canada	•(8)	•(8)	•(8,23)	•(8)	•(8)	•(2,8)		•
Cayman Islands	•	•	•	•	•	•	•	•
Chile	•	•		•	•	•		•

Product group with approved antennas	IEEE 802.11n						802.11ac	
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China	•	•	•	•(14)	•(14)	•(14)		•
Colombia	•(8)	•(8)		•(8)	•(8)	•(2,8)		•
Costa Rica								•
Curacao								•
Ecuador		•(8,16)	•(8)	•(8)	•(8)	•(2,8)		
Egypt	•(21)	•(21)		•(21)	•(21)			
EFTA ^{B)}	•(9)	•	•	•	•	•	•	•
El Salvador								•
Ethiopia								•
EU ^{A)C)}	•(9)	•	•	•	•	•	•	•
Georgien								•
Guadeloupe								•
Guam	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)			•
Guatemala	•(8)	•(8)		•(8)	•(8)	•(2,8)		•
Hong Kong	•	•	•	•(14)	•(14)	•(14)		•
India	•	•	•(6)	•	•	•	•	•
Indonesia	•(6,10,17)	•(6,10,17)	•(6,10,17)	•(4,10,15,17)	•(4,10,17)	•(4,10,17)		
Israel	•(21)	•(21)		•(21)	•(21)			
Ivory Coast	•	•		•	•	•		
Japan	•(5,7,20)	•(5,7,20)		•(5,7)	•(5,7)	•(3,5,7)		•(3)
Jordan								•
Kazakhstan	•	•	•(6)	•	•	•		•
Kenya								•
Korea Republic	•(5,6,7,10,20)	•(5,6,7,10,16,20)	•(10,22)	•(5,6,7,10,14,19)	•(5,6,7,10,14,19)	•(5,6,7,10,14,19)		•
Kosovo								•
Kuwait	•	•	•(6)	•	•	•		•
Laos								•
Macau	•(11)	•(11)	•(11)	•(11)	•(11)	•(11)		•

Product group with approved antennas	IEEE 802.11n						802.11ac	
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Madagascar	●(13)	●(13,16)		●(13)	●(13)	●(13)		
Malaysia	●(6,10)	●(6,10)		●	●	●		●
Maldives								●
Marshall Islands								●
Mexico	●(6)	●(6)	●(6)	●(14)	●(14)	●(2,14)		●
Micronesia								●
Montenegro	●(9)	●	●(6)	●	●	●	●	●
Morocco		●(7,20,24)		●(12)				●(13)
Mozambique		●(16)	●	●	●	●		
Myanmar	●	●	●	●	●			●
Nepal		●						
New Zealand	●	●	●	●	●	●	●	●
Nigeria								●
Northern Mariana Islands	●(1,8)	●(1,8)	●(1,8)	●(1,8)	●(1,8)			●
North Macedonia	●(9)	●	●(6)	●	●	●	●	●
Oman	●(9,16)	●(9,16)	●(9)	●(9)	●(9)	●(9)		●
Pakistan	●(6,10)	●(6,10)		●	●	●		●
Panama								●
Peru	●(8)	●(8)	●(8)	●(8)	●(8)	●(8)		●
Philippines	●	●		●	●	●		●
Puerto Rico	●(8)	●(8)		●(8)	●(8)	●(2,8)		●
Qatar	●(18)	●(18)		●(18)	●(18)	●(18)		●(18)
Russia	●(9)	●(9)	●(6,9)	●	●	●		●
Saudi Arabia	●	●	●	●	●	●		●
Serbia	●	●	●(6)	●	●	●	●	●
Singapore	●(5,7,20)	●(5,7,20)	●(5,7,20)	●(4,5,7,14)	●(4,5,7,14)	●(4,5,7,14)	●	●
South Africa	●	●	●(6)	●	●	●		●
Taiwan		●(16)		●(6,7,8,14)	●(6,7,8,14)	●(6,7,8,14)		●

Thailand	•	•	•(6)	•	•	•	•	•
	IEEE 802.11n						802.11ac	
Product group with approved antennas	 <u>SCALANCE W760</u> with <u>ANT 1</u>	 <u>SCALANCE W770</u> with <u>ANT 1</u>	 <u>SCALANCE W770 IP65</u> mit <u>ANT 1</u>	 <u>SCALANCE W786 RJ45 / W786 SFP</u> with <u>ANT 2</u>	 <u>SCALANCE W788 M12 / W788 RJ45</u> with <u>ANT 2</u>	 <u>SCALANCE WLC-700/W78xC</u> with <u>ANT 2</u>	 <u>SCALANCE W1780</u> <u>ANT3</u>	 <u>SCALANCE W1750D</u>
Trinidad and Tobago								•
Turkey	•(9)	•	•(6)	•	•	•	•	•
Ukraine				•	•	•		•
United Arab Emirates								•
Uruguay	•	•		•	•	•	•	
USA	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(2,8)	•(1,8)	•(1)
US Virgin Islands	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)			•
Uzbekistan								•
Venezuela	•	•		•	•	•		
Viet Nam	•(6)	•(6)		•	•	•		•

General

A) EU: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, UK

B) EFTA: Iceland, Liechtenstein, Norway, Switzerland

C) country approvals also valid for the following European microstates: Andorra, Monaco, San Marino, Vatican

D) For further details please contact our customer support, phone: +49 (0)911 895 7 222























contact form: <http://www.support.automation.siemens.com>

Country-specific Notes

- (1)** approved are the US devices
- (2)** approved are the NAM devices
- (3)** approved are the Japan devices
- (4)** antenna ANT793-8DP is not approved for this country
- (5)** antenna ANT795-4MX is not approved for this country
- (6)** antennas ANT792-8DN, ANT793-8DJ, ANT793-8DK, ANT793-8DL and ANT793-8DP are not approved for this country
- (7)** antennas ANT793-8DL, ANT795-6MP and ANT896-6MM are not approved for this country
- (8)** When using SCALANCE W700 with DFS (Dynamic Frequency Selection) IWLAN RCoax Cable 5GHz must not be used.
- (9)** for these devices channels 149 - 165 are not approved
- (10)** for these devices channels 36 - 48 are not approved
- (11)** restricted to indoor use and private properties
- (12)** only SCALANCE W786-2IA RJ45 is approved and only for indoor use and private properties
- (13)** approved for indoor use only
- (14)** the power supply module PS791-2AC is not approved for this country
- (15)** SCALANCE W786-2 SFP is not approved for this country
- (16)** SCALANCE W774-1 M12 EEC is not approved for this country
- (17)** Note: Each importer must obtain a separate certificate from the local authorities in the country.
Ordering devices via Siemens Indonesia is possible.
- (18)** approved for indoor use only
for outdoor use a special license must be obtained from the local authorities and an annual fee will be charged
- (19)** antennas ANT793-6DG, ANT793-6DT, ANT795-6DC and ANT795-6MN are not approved for this country
- (20)** antennas ANT795-6MT and ANT793-8DT are not approved for this country
- (21)** approved are the IL versions of following devices: SCALANCE W722-1 RJ45, W774-1 RJ45, W786-2 RJ45 and W788-2RJ45
- (22)** antennas ANT793-8DJ and ANT793-8DK are not approved for this country
- (23)** for these devices channels 52-140 are not approved
- (24)** approved for indoor use and private properties only
for outdoor use (excl. private properties) a special license must be obtained from the local authorities and an annual fee will be charged

Antennas

Antenna overview

Antennenart	Frequenz (GHz)	Antennen	SCALANCE W780W740	SCALANCE W770W730	SCALANCE W760W720	Antennenart	Frequenz (GHz)	Antennen	SCALANCE W780W740	SCALANCE W770W730	SCALANCE W760W720
omnidirektional	2,4	 ANT792-6MN	•	•	•	gerichtet	2,4	 ANT792-8DN	•		
		 ANT795-4MA	•	•	•			 ANT793-8DP	•	•	•
	 ANT795-4MB	•	•	•	 ANT793-8DJ		•	•			
	 ANT795-4MC	•	•		 ANT793-8DK		•	•			
	2,4 und 5	 ANT795-4MD	•	•			 ANT793-8DL	•	•		
		 ANT795-4MX	•	•			 RCoax Leckwellenleiter 2,4 GHz	•	•	•	
	 ANT795-6MN	•	•	•	 ANT792-4DN		•	•	•		
	 ANT795-6MT	•			 RCoax Leckwellenleiter 5 GHz		•	•	•		
	 ANT795-6MP	•	•	•	 ANT793-4MN		•	•	•		
	5	 ANT793-6MN	•	•	•						
Sektor	2,4 und 5	 ANT795-6DC	•	•	•						
		 ANT793-6DG	•	•							
	5	 ANT793-6DT	•								

The following antennas are approved in combination with the APs and recommended:

ANT 1: ANT792-4DN, ANT792-6MN, ANT793-4MN, ANT793-6DG, ANT793-6DT, ANT793-6MN, ANT793-8DJ***, ANT793-8DK***, ANT793-8DL*, ANT793-8DP*, ANT795-4MA, ANT795-4MB, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT795-6MP, ANT795-6MT, ANT896-6MM, RCoax 2.4 and 5 GHz

ANT 2: ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6DG, ANT793-6DT, ANT793-6MN, ANT793-8DJ**, ANT793-8DK**, ANT793-8DL, ANT793-8DP, ANT795-4MA, ANT795-4MB, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT795-6MT, ANT795-6MP, ANT896-6MM, RCoax 2.4 and 5 GHz

ANT 3: ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6DG, ANT795-4MA, ANT795-4MB, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT795-6MP, ANT795-6MT, ANT896-6MM, RCoax 2.4 and 5 GHz,

The following antennas can only be used on one antenna connector per radio interface (R1A1 or R2A1):

ANT793-8DJ**, ANT793-8DK**, ANT793-8DL, ANT793-8DP, ANT793-8DQ

The rest of the antenna connectors have to be fitted with a terminating resistor.

* For the related productlines this antenna is not approved for channels 36-48

** For ANT793-8DJ an antenna connection cable with a length of $\geq 5\text{m}$ is required, for ANT793-8DK an antenna connection cable with a length of $\geq 10\text{m}$ is required

SCALANCE W760 RJ45

- contains the product groups

W761-1 RJ45 / W721- 1 RJ45/ W722-1 RJ45

SCALANCE W770

- contains the product groups

W774-1 RJ45 / W774-1 M12 EEC/ W734-1 RJ45

SCALANCE W770 IP65

- contains the product groups

W778-1 M12 / W738-1 M12

SCALANCE W786 RJ45 / W786 SFP

- contains the product groups

SCALANCE W786-1 RJ45 / W786-2 RJ45 / W786-2IA RJ45 / W786-2 SFP

SCALANCE W788 M12 / W788 RJ45

- contains the product groups

W748-1 RJ45 / W788-1 RJ45 / W788-2 RJ45 / W748-1 M12 / W788-1 M12 / W788-2 M12

SCALANCE WLC-700 / W78xC

- contains the product groups

SCALANCE WLC711 / W712 / W788C-2 RJ45 / W788C-2 M12 / W786C-2IA RJ45 / W786C-2 RJ45 / W786C-2 SFP

SCALANCE W1780



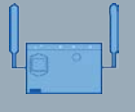



- contains the product groups



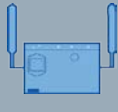
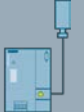


SCALANCE W1788-1 M12, W1788-2 M12, W1788-2IA M12, W1788-2 M12 EEC, W1748-1 M12

SCALANCE W1750D

- contains the product groups

SCALANCE W1750D-2IA RJ45

	IEEE 802.11 abg					
Product group with approved antennas						
	<u>SCALANCE W784</u> with <u>ANT 10</u>	<u>SCALANCE W786 PRO/ RR</u> with <u>ANT 11</u>	<u>SCALANCE W788 PRO/ RR</u> with <u>ANT 12</u>	<u>IWLAN/PB Link PN IO</u> with <u>ANT 10</u>	<u>ET200PRO, IM 154-6 PN HF</u> with <u>ANT 13</u>	<u>Mobile Panel 277(F) IWLAN V2</u> with <u>ANT 14</u>
Angola	•	•	•			
Argentina						
Australia	•	•	•	•	•	•
Bahamas	•(33,34,39)	•(33,34,39)	•(33,34,39)	•(33,34,39)		
Bahrain	•	•	•			
Brazil						
Canada	•(33)	•(33)	•(33)	•(33)	•	•
Chile	•	•	•	•		
China					•	•
Colombia	•	•	•	•		
Egypt						
<u>EFTA^{B)}</u>	• (31)	• (31)	• (31)	•	•	•
<u>EU^{A)}</u>	• (31)	• (31)	• (31)	•	•	•
Hong Kong	•(35,38)	•(35,38)	•(35,38)	•(35,38)	•	
India	•	•	•	•		
Japan	•	•	•	•		•
Korea Republic	•(38)	•(38)	•(38)	•(38)	•	
Kuwait						
Macedonia	•	•	•			
Malaysia	•	•	•	•		
Mexico	•(38)	•(38)	•(38)	•(38)		
Mozambique	•	•	•	•		
Peru	•	•	•			
Puerto Rico	•(33,34)	•(33,34)	•(33,34)	•(33,34)		
Russia						
Saudi Arabia						
Serbia a. Montenegro	•	•	•			
Singapore						

	IEEE 802.11 abg					
Product group with approved antennas	 <u>SCALANCE W784</u> with <u>ANT 10</u>	 <u>SCALANCE W786 PRO/ RR</u> with <u>ANT 11</u>	 <u>SCALANCE W788 PRO/ RR</u> with <u>ANT 12</u>	 <u>IWLAN/PB Link PN IO</u> with <u>ANT 10</u>	 <u>ET200PRO, IM 154-6 PN HF</u> with <u>ANT 13</u>	 <u>Mobile Panel 277(F) IWLAN V2</u> with <u>ANT 14</u>
South Africa	●(35)	●(35)	●(35)	●(35)	●	●
Taiwan	●(33,38)	●(33,38)	●(33,38)		●	●
Turkey	●	●	●	●	●	●
Ukraine	●	●	●			
United Arab Emirates						
Uruguay						
USA	●(33,34,39)	●(33,34,39)	●(33,34,39)	●(33,34,39)	●	●
Venezuela	●	●	●			
Viet Nam						

General

A) EU: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, UK

B) EFTA: Iceland, Liechtenstein, Norway, Switzerland

C) For further details please contact our customer support, phone: +49 (0)911 895 7 222

contact form: <http://www.support.automation.siemens.com>

Country-specific Notes

(31) For all marked SCALANCE W Access Points ordered after 2009-04-01 the DFS channels (channels 120, 124, 128) of the 5 GHz band are no longer approved within the European Union

(32): for these components only the 2,4 GHz band is approved

(33): antenna ANT793-8DN is not approved for this country

(34): channels 52, 56, 60 und 64 of the 5GHz band are not approved for IEEE 802.11a

(35): channels 120, 124 and 128 of the 5GHz band are not approved for IEEE 802.11h

(36): The 5 GHz band is only approved for IEEE 802.11h

(37): for these components the 2,4 GHz band and the following channels of the 5 GHz band are approved:
chnannels: 36, 40, 44, 48, 52, 56, 60, 64












(38): the power supply modules PS791-1PRO and PS791-2AC are not approved

(39) approved are the US devices

(40): antennas ANT792-8DN and ANT793-8DN are not approved for this country

Antennas for IEEE 802.11abg devices

Antenna overview

Antennas for SCALANCE W-700 according to IEEE 802.11n and 802.11a/b/g		Antennas exclusively for SCALANCE W-700 according to IEEE 802.11a/b/g	
with 1 connection		with 1 connection	
	ANT792-4DN		ANT795-4MR
	ANT793-4MN		ANT795-4MS
	ANT792-6MN		ANT795-6DN
	ANT793-6MN		ANT793-8DN
	ANT792-8DN		
	ANT795-6MN		
	RCoax radiating cables		

The following antennas are approved in combination with the APs and recommended:

ANT 10: ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6MN, ANT793-8DN, ANT795-4MR, ANT795-4MS, ANT795-6DN, ANT795-6MN, RCoax 2.4 and 5 GHz

ANT 11: ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6MN, ANT793-8DN, ANT795-6DN, ANT795-6MN, RCoax 2.4 and 5 GHz

ANT 12: ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6MN, ANT793-8DN, ANT795-4MR, ANT795-6DN, ANT795-6MN, RCoax 2.4 and 5 GHz

ANT 13: ANT IM 154-6 IWLAN, ANT792-4DN, ANT792-6MN, ANT793-4MN, ANT793-6MN

ANT 14: internal antenna of Mobile Panel 277(F) IWLAN

SCALANCE W784

- contains the product groups

SCALANCE W784-1 / -1RR / W744-1 / W746-1 / W747-1

SCALANCE W786 PRO/ RR

- contains the product groups

SCALANCE W786-x:- RJ45 HW rev. 3, - FO HW rev. 4

SCALANCE W786-2 HPW: - RJ45 HW rev. 4, - FO HW rev. 6

- **RJ45 HW rev. 3:** Summary of the following products (MLFB)

W786-1PRO 6GK5786-1AA60-2xxx
 6GK5786-1BA60-2xxx

W786-2 PRO 6GK5786-2AA60-2xxx
 6GK5786-2BA60-2xxx

W786-3 PRO 6GK5786-3AA60-2xxx

W786-2 RR 6GK5786-2AA60-6xxx
 6GK5786-2BA60-6xxx

- **FO HW rev. 4:** Summary of the following products (MLFB)

W786-1PRO 6GK5786-1AB60-xxxx
 6GK5786-1BB60-xxxx

W786-2 PRO 6GK5786-2AB60-xxxx
 6GK5786-2BB60-xxxx

W786-3 PRO 6GK5786-3AB60-xxxx

SCALANCE W788 PRO/ RR

- contains the product groups

SCALANCE W788-1PRO/-2PRO/-1RR/-2RR/W744-1PRO/W746-1PRO/W747-1RR

- Summary of the following products (MLFB)

W788-1PRO 6GK5788-1AA60-xxxx

W788-2PRO 6GK5788-2AA60-xxxx

W788-1RR 6GK5788-1AA60-xxxx

W788-2RR 6GK5788-2AA60-xxxx

W744-1PRO 6GK5744-1AA60-xxxx

W746-1PRO 6GK5746-1AA60-xxxx

W747-1RR 6GK5747-1AA60-xxxx

IWLAN/PB Link PN IO

- contains the product groups

IWLAN/PB Link PN IO HW rev. 3

ET200PRO, IM 154-6 PN HF IWLAN

- Summary of the following products (MLFB)

IM 154-6 PN HF IWLAN	6ES7154-6ABxx-xxxx
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Mobile Panel 277(F) IWLAN V2

- Summary of the following products (MLFB)

Mobile Panel 277 IWLAN	6AV6645-0Dxxx-xxx1
Mobile Panel 277(F) IWLAN	6AV6645-0Exxx-xxx1
Mobile Panel 277F IWLAN USA	6AV6645-0Gxxx-xxx1
Mobile Panel 277 IWLAN USA	6AV6645-0Fxxx-xxx1

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Online: <http://www.siemens.de/automation/support-request>

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