



















SIMATIC NET









Industrial Wireless LAN









Radio Country Approvals for IWLAN devices



Version: May 22

	802.11 n					802.11 ac	802.11 ax	
Product group with approved antennas								
	with ANT 1	with ANT 1	with ANT 1	with ANT 2	with ANT 2	with ANT 3	with ANT 4	with ANT 4
Albania	•	•	•	•	•	•	• (29)	• (29)
American Samoa	• (1,8)	• (1,8)	• (1,8)	• (1,8)	• (1,8)			
Angola	•	•	•	•	•			
Argentina	• (6)	• (6)		• (14)	• (14)	•		
Australia	•	•	• (6)	•	•	•		
Bahamas	• (8)	• (8)	• (8)	• (8)	• (8)			
Bahrain	•	•	• (6)	•	•	•		
Belarus	• (9,25)	• (9,25)	• (6,9,25)	• (25)	• (25)			
Bosnia a. Herzegovina	• (9)	•	• (6)	•	•	•	• (29)	• (29)
Brazil	• (5,6,7)	• (5,6,7)	• (5,6,7)	• (5,6,7)	• (5,6,7)	• (6)		
Canada	• (8)	• (8)	• (8,23)	• (8)	• (8)			
Chile	•	•		•	•	•		
China	•	•	•	• (14)	• (14)	•		
Colombia	• (8)	• (8)		• (8)	• (8)			
Ecuador		• (8,16)	• (8)	• (8)	• (8)			

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Product group with approved antennas								
	SCALANCE W760	SCALANCE W770	SCALANCE W770 IP65	SCALANCE W786 RJ45/ W786 SFP	SCALANCE W788 M12/ W788 RJ45	SCALANCE W1780	SCALANCE WxM766-1	SCALANCE WxM763-1
	with ANT 1	with ANT 1	with ANT 1	with ANT 2	with ANT 2	with ANT 3	with ANT 4	with ANT 4
Egypt	• (21)	• (21)		• (21)	• (21)			
EFTA ^{B)}	• (9)	•	• (6)	•	•	•	• (29)	• (29)
EU ^{A)C)}	• (9)	•	• (6)	•	•	•	• (29)	• (29)
Guam	• (1,8)	• (1,8)	• (1,8)	• (1,8)	• (1,8)			
Guatemala	• (8)	• (8)		• (8)	• (8)			
Hong Kong, China	•	•	•	• (14)	• (14)	•		
India	•	•	• (6)	•	•	•		
Indonesia	• (6,10,17)	• (6,10,17)	• (6,10,17)	• (4,10,15,17)	• (4,10,17)			
Israel	• (21)	• (21)		• (21)	• (21)			
Ivory Coast	•	•		•	•			
Japan	•	•		•	•	•		
Kazakhstan	• (9,25)	• (9,25)	• (6,9,25)	• (25)	• (25)			
Kenya						•		
Korea Republic	• (5,6,7,10,20)	• (5,6,7,10,16,20)	• (22)	• (5,6,7,10,14,19)	• (5,6,7,10,14,19)			
Kuwait	•	•	• (6)	•	•	•		

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	with ANT 1	with ANT 1	with ANT 1	with ANT 2	with ANT 2	with ANT 3	with ANT 4	with ANT 4
Macao, China	•(11)	•(11)	•(11)	•(11)	•(11)			
Madagascar	•(13)	•(13,16)		•(13)	•(13)			
Malaysia	•(6,10)	•(6,10)		•	•	•(6)		
Mexico	•(6)	•(6)	•(6)	•(14)	•(14)	•		
Montenegro	•(9)	•	•(6)	•	•	•	•(29)	•(29)
Morocco	•(26)	•(7,16,20,24)		•(12)	•(24)	•(31)		
Mozambique		•(16)	•	•	•			
Myanmar	•	•	•	•	•			
Nepal		• (13,28)						
New Zealand	•	•	•	•	•	•		
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)			
Pakistan	•(6,10)	•(6,10)		•	•			
Peru	•(8)	•(8)	•(8)	•(8)	•(8)	•(8)		

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Product group with approved antennas								
	with ANT 1	with ANT 1	with ANT 1	with ANT 2	with ANT 2	with ANT 3	with ANT 4	with ANT 4
Philippines	•	•		•	•	•		
Puerto Rico	• (8)	• (8)		• (8)	• (8)			
Qatar	• (18)	• (18)		• (18)	• (18)			
Russian Federation	• (9,25)	• (9,25)	• (6,9,25)	• (25)	• (25)	• (25)	• (25)	
Saudi Arabia	•	•	•	•	•	•		
Serbia	•	•	• (6)	•	•	•		
Singapore	• (5,7,20)	• (5,7,20)	• (5,7,20)	• (4,5,7,14)	• (4,5,7,14)	•		
South Africa	•	•	• (6)	•	•	•		
Taiwan		• (16)	• (6)	• (6,7,8,14)	• (6,7,8,14)			
Thailand	•	•	• (6)	•	•	•		
Turkey	• (9)	•	• (6)	•	•	•		
Ukraine				•	•			
United Arab Emirates						•		
United Kingdom	• (9)	•	• (6)	•	•	•	• (29)	• (29)
Uruguay	•	•		•	•	•		

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Product group with approved antennas								
	<u>SCALANCE W760</u>	<u>SCALANCE W770</u>	<u>SCALANCE W770 IP65</u>	<u>SCALANCE W786 RJ45/ W786 SFP</u>	<u>SCALANCE W788 M12/ W788 RJ45</u>	<u>SCALANCE W1780</u>	<u>SCALANCE WxM766-1</u>	<u>SCALANCE WxM763-1</u>
	with <u>ANT 1</u>	with <u>ANT 1</u>	with <u>ANT 1</u>	with <u>ANT 2</u>	with <u>ANT 2</u>	with <u>ANT 3</u>	with <u>ANT 4</u>	with <u>ANT 4</u>
USA	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)		•(1,30)	
US Virgin Islands	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)			
Venezuela	•	•		•	•	•		
Viet Nam	•(6)	•(6)		•	•	•(6)		












General notes

- 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
- B) EFTA:** Iceland, Liechtenstein, Norway, Switzerland
- C)** country approvals also valid for the following European microstates: Andorra, Monaco, San Marino, Vatican











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 and ANT795-6MP 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, ANT795-6DC and ANT795-6MN are not approved for this country
- (20) antenna ANT795-6MT is 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
- (25)** All SCALANCE W products which are available for Russia and EAC countries are delivered with following standards based on local regulations:
short-range subscriber transmitting terminal equipment with a reception device embedded of the IEEE 802.11 standard of various versions (modifications), operating in the radio frequency band of 2400-2483.5 MHz, 5150 – 5350 MHz and 5650 – 5850 MHz with an output power of the transmitter not greater than 100 mW.
- (26)** only SCALANCE W722-1 is approved
- (27)** for Base Stations and Land Mobile Stations a special license must be obtained from the local authorities and a fee will be charged
- (28)** only SCALANCE W774-1 RJ45 is approved
- (29)** For this country the usage of 80 MHz channel width is not allowed with channels 52-140
- (30)** antennas ANT792-4DN, ANT793-4MN, IWLAN Rcoax Cable 2,4 GHz and 5 GHz are not approved for this country
- (31)** SCALANCE W1788-2 M12 EEC and SCALANCE W1788-2IA M12 are not approved in this country

Type of antenna	Frequency range (GHz)	Antennas	SCALANCE W780/W740	SCALANCE W760/W720, W770/W730	SCALANCE W770/W730 IP65	SCALANCE W1780/W1740	SCALANCE WAM766-1/ WUM766-1	SCALANCE WAM763-1/ WUM763-1
omnidirectional	2.4		ANT792-6MN	●	●	●	●	●
	2.4 and 5		ANT795-4MA	●	●			●
			ANT795-4MB	●	●			●
			ANT795-4MC	●		●	●	●
			ANT795-4MD	●		●	●	●
			ANT795-4MX	●		●	●	●
			ANT795-6MN	●	●	●	●	●
			ANT795-6MT	●			●	
			ANT795-6MP	●	●	●	●	●
		Sector	2.4 and 5		ANT795-6DC	●	●	●
5			ANT793-6DG	●	●	●	●	●

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Type of antenna	Frequency range (GHz)	Antennas	SCALANCE W780/W740	SCALANCE W760/W720, W770/W730	SCALANCE W770/W730 IP65	SCALANCE W1780/W1740	SCALANCE WAM766-1/ WUM766-1	SCALANCE WAM763-1/ WUM763-1
directional	2.4		ANT792-8DN	●			●	●
	5		ANT793-8DP	●	●	●	●*	●
			ANT793-8DJ	●	●	●	●*	●
			ANT793-8DK	●	●	●	●*	●
			ANT793-8DL	●	●	●	●*	●
			ANT793-8DL	●	●	●	●*	●
RCoax	2.4		RCoax radiating cables 2.4 GHz	●	●	●	●	●
			ANT792-4DN	●	●	●	●	●
	5		RCoax radiating cables 5 GHz	●	●	●	●	●
			ANT793-4MN	●	●	●	●	●

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*Antennas can only be used on one antenna connector per radio interface (R1A1 or R2A1) and the rest of the antenna connectors have to be fitted with a terminating resistor.

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

ANT 1 ANT792-4DN, ANT792-6MN, ANT793-4MN, ANT793-6DG, ANT795-4MA, ANT795-4MB, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT795-6MP, ANT795-6MT, RCoax 2.4 and 5 GHz

The following antennas are not approved for channels 36-48:

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

ANT 2 ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6DG, ANT793-8DJ*, ANT793-8DK*, ANT793-8DL, ANT793-8DP, ANT795-4MA, ANT795-4MB, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT 795-6MT, ANT795-6MP, 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, 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

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

ANT 4 ANT792-4DN, ANT792-6MN, ANT792-8DN, ANT793-4MN, ANT793-6DG, ANT795-4MC, ANT795-4MD, ANT795-4MX, ANT795-6DC, ANT795-6MN, ANT795-6MP, RCoax 2.4 and 5 GHz,

For the following antennas additional attenuation may be necessary:

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

For details please refer to the manual: "SIMATIC NET-Industrial Wireless LAN- Approvals SCALANCE W700 802.11ax"

* 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 SCALANCE W761-1 RJ45, W721- 1 RJ45, W722-1 RJ45

SCALANCE W770

contains the product groups SCALANCE W774-1 RJ45, W774-1 M12 EEC, W734-1 RJ45

SCALANCE W770 IP65

contains the product groups SCALANCE 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 SCALANCE W748-1 RJ45, W788-1 RJ45, W788-2 RJ45, W748-1 M12, W788-1 M12, W788-2 M12

SCALANCE W1780

contains the product groups SCALANCE W1788-1 M12, W1788-2 M12, W1788-2IA M12, W1788-2 M12 EEC, W1748-1 M12

SCALANCE WxM766-1

contains the product groups SCALANCE WAM766-1, WAM766-1 ECC, WUM766-1

SCALANCE WxM763-1

contains the product groups SCALANCE WAM763-1, WAM763-1, WUM763-1 DIDO

SCALANCE WxB762-1

contains the product groups SCALANCE WAB762-1, WUB762-1, WUB762-1 iFeatures

For further details please contact our Customer Support: <http://www.siemens.de/automation/support-request>

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