

SIMATIC NET

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








2021-08-10








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	802.11ax
	 SCALANCE W760 with ANT 1	 SCALANCE W770 with ANT 1	 SCALANCE W770 IP65 with ANT 1	 SCALANCE W786 RJ45 / W786 SFP with ANT 2	 SCALANCE W788 M12 / W788 RJ45 with ANT 2	 SCALANCE W1780 with ANT3	 SCALANCE WxM766 M12 with ANT4
Albania	•	•	•	•	•	•	•(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)
Brazil	•(5,6,7)	•(5,6,7)	•(5,6,7)	•(5,6,7)	•(5,6,7)		
Canada	•(8)	•(8)	•(8,23)	•(8)	•(8)		
Cayman Islands	•	•	•	•	•	•	
Chile	•	•		•	•		
China	•	•	•	•(14)	•(14)		
Colombia	•(8)	•(8)		•(8)	•(8)		
Costa Rica							
Ecuador		•(8,16)	•(8)	•(8)	•(8)		
Egypt	•(21)	•(21)		•(21)	•(21)		
EFTA^{B)}	•(9)	•	•(6)	•	•	•	•(29)
Ethiopia							
EU^{A)C)}	•(9)	•	•(6)	•	•	•	•(29)
Guam	•(1,8)	•(1,8)	•(1,8)	•(1,8)	•(1,8)		

	IEEE 802.11n					802.11ac	802.11ax
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 W1780</u> <u>ANT3</u>	 <u>SCALANCE WxM766 M12</u> with <u>ANT4</u>
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)		
Kosovo							
Kuwait	●	●	●(6)	●	●		
Macao, China	●(11)	●(11)	●(11)	●(11)	●(11)		
Madagascar	●(13)	●(13,16)		●(13)	●(13)		
Malaysia	●(6,10)	●(6,10)		●	●		
Mexico	●(6)	●(6)	●(6)	●(14)	●(14)		
Montenegro	●(9)	●	●(6)	●	●	●	●(29)
Morocco	●(26)	●(7,16,20,24)		●(12)	●(24)		
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)		●	●		

	IEEE 802.11n					802.11ac	802.11ax
Product group with approved antennas							
	SCALANCE W760 with ANT 1	SCALANCE W770 with ANT 1	SCALANCE W770 IP65 mit ANT 1	SCALANCE W786 RJ45 / W786 SFP with ANT 2	SCALANCE W788 M12 / W788 RJ45 with ANT 2	SCALANCE W1780 ANT3	SCALANCE WxM766 M12 with ANT4
Peru	●(8)	●(8)	●(8)	●(8)	●(8)		
Philippines	●	●		●	●		
Puerto Rico	●(8)	●(8)		●(8)	●(8)		
Qatar	●(18)	●(18)		●(18)	●(18)		
Russia	●(9,25)	●(9,25)	●(6,9,25)	●(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)
Uruguay	●	●		●	●		
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)		●	●		

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

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: <https://support.industry.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 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

Antennas

Antenna overview

Type of antenna	Frequency range (GHz)	Antennas	SCALANCE W780/W740	SCALANCE W760/W720	SCALANCE W770/W730	SCALANCE W770/W730 IP65	SCALANCE W1780/W1740
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	•	•	•		•
G_IK10_XX_30318							

Type of antenna	Frequency range (GHz)	Antennas	SCALANCE W780/W740	SCALANCE W760/W720	SCALANCE W770/W730	SCALANCE W770/W730 IP65	SCALANCE W1780/W1740	SCALANCE W1M768-1/ W1M768-1
directional	5	 ANT792-8DN	•				•	•
		 ANT793-8DP	•	•	•		•*	•
		 ANT793-8DJ	•	•	•		•*	•
		 ANT793-8DK	•	•	•		•*	•
		 ANT793-8DL	•	•	•		•*	•
		 RCoax radiating cables 2.4 GHz	•	•	•		•	•
RCoax	5	 ANT792-4DN	•	•	•		•	•
		 RCoax radiating cables 5 GHz	•	•	•		•	•
		 ANT793-4MN	•	•	•		•	•
G_IK10_XX_30317								

*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, ANT795-6MT, 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

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 W1780

- contains the product groups

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

SCALANCE WxM766 M12

- contains the product groups

SCALANCE WAM766-1 M12, WUM766-1 M12

For further details please contact our Customer Support:

<https://support.industry.siemens.com>

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