

SIMATIC NET

Industrial Wireless LAN Approvals SCALANCE W700 802.11ax

Reference Manual

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 DANGER
indicates that death or severe personal injury will result if proper precautions are not taken.
 WARNING
indicates that death or severe personal injury may result if proper precautions are not taken.
 CAUTION
indicates that minor personal injury can result if proper precautions are not taken.
NOTICE
indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

 WARNING
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of Siemens Aktiengesellschaft. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Current approvals on the Internet

You will find the current approvals for the product on the Internet pages of Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

Cybersecurity notes

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit

<https://www.siemens.com/cybersecurity-industry>
(<https://www.siemens.com/industrialsecurity>).

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under

<https://new.siemens.com/cert> (<https://www.siemens.com/cert>).

SCALANCE WxM766

Note

Issued approvals on the type plate of the device

The specified approvals apply only when the corresponding mark is printed on the product. You can check which of the following approvals have been granted for your product by the markings on the type plate.

1.1 Type designations

Scope of validity

The approvals listed in this section apply to the following products:

Product	Article number	Model
Access points		
SCALANCE WAM766-1	6GK5766-1GE00-7DA0 6GK5766-1GE00-7DB0 (US) 6GK5766-1GE00-7DC0 (ME)	MSAX65-W1-M12-E2
SCALANCE WAM766-1 EEC	6GK5766-1GE00-7TA0 6GK5766-1GE00-7TB0 (US) 6GK5766-1GE00-7TC0 (ME)	MSAX65-W1-M12-E2
Client		
SCALANCE WUM766-1	6GK5766-1GE00-3DA0 6GK5766-1GE00-3DB0 (US) 6GK5766-1GE00-3DC0 (ME)	MSAX65-W1-M12-E2

1.2 EC declaration of conformity



The EU Declaration of Conformity is available for all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

You can find the current EU declaration of conformity for these products on the Internet pages under Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following EU directives:

- ATEX directive 2014/34/EU

Directive of the European Parliament and the Council of 26 February 2014 on the approximation of the laws of the member states concerning equipment and protective systems intended for use in potentially explosive atmospheres, official journal of the EU L96, 29/03/2014, pages 309–356

- RoHS directive 2011/65/EU

Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, official journal of the EC L174, 01/07/2011, pages 88-110

- Radio equipment directive 2014/53/EU (RED, Radio Equipment Directive)

Directive of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the member states relating to placing radio equipment on the market; official journal of the EU L153, 22/05/2014, pages 62–106

1.2.1 ATEX

ATEX directive (correct usage in potentially explosive atmospheres)

The SIMATIC NET product meets the requirements of the EU Directive 2014/34/EU "Equipment and Protective Devices for Use in Potentially Explosive Atmospheres".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

1.2.2 RoHS

RoHS directive (restriction of the use of certain hazardous substances)

The SIMATIC NET product meets the requirements of the EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment:

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

1.2.3 RED**1.2.3.1 Protection of health and safety****Article 3 (1) a) protection of health and safety**

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

1.2.3.2 EMC**Art. 3 (1) b) - EMC**

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements
- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements

1.2 EC declaration of conformity

- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

1.2.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

1.2.4 Other technical standards

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

1.2.5 Products

CE conformity

The standards applying to the product are described in ATEX (Page 10), RoHS (Page 10) and RED (Page 11).

Product	Standards
SCALANCE WAM 766-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WAM 766-1 EEC	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUM 766-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

1.3 UK Declaration of Conformity



The UK declaration of conformity is available to all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

Importer UK:

Siemens plc,
Manchester M20 2UR
United Kingdom

You can find the current UK Declaration of Conformity for these products on the Internet pages under Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following directives:

- UK Regulation
SI 2016/1107 The Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, and related amendments
- RoHS Regulation
SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, and related amendments
- Radio Equipment Regulation
SI 2017/1206 The Radio Equipment Regulations 2017

1.3.1 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

Correct usage in potentially explosive atmospheres

The SIMATIC NET product meets the requirements of "Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

1.3.2 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Restriction of the use of certain hazardous substances

The SIMATIC NET product meets the requirements of "The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012".

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

1.3.3 Radio Equipment Regulations 2017

1.3.3.1 Protection of health and safety

Article 3 (1) a) protection of health and safety

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

1.3.3.2 EMC

Art. 3 (1) b) - EMC

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements

- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

1.3.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

1.3.4 Other technical standards

Art. 3 (3) a)-i) Delegated acts for radio equipment

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

1.3.5 Products

UK conformity

The standards applying to the product are described in Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (Page 14), The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (Page 15) and Radio Equipment Regulations 2017 (Page 15).

Product	Standards
SCALANCE WAM766-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WAM766-1 EEC	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUM766-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

1.4 Country-specific notes

1.4.1 Note for Australia and New Zealand

You will find the current document, Supplier's declaration of conformity, for these products on the Internet pages of Siemens Industry Online Support:

(<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>)

1.4.2 Notes for Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL (www.anatel.gov.br)

1.4.3 Notices for Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device..

This radio transmitter 267AA-MSAX65V1 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain

greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Approved Antennas: (Page 38)

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to the device.

This equipment complies with ISSED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

The approval applies to the following products:

Product	Article number	Certification Number
Access Points		
SCALANCE WAM766-1	6GK5766-1GE00-7DA0	267AA-MSAX65V1
SCALANCE WAM766-1 EEC	6GK5766-1GE00-7TA0	267AA-MSAX65V1
Client		
SCALANCE WUM766-1	6GK5766-1GE00-3DA0	267AA-MSAX65V1

1.4.4 Notes for Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) Es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Este equipo ha sido diseñado para operar con las antenas enlistadas en el manual de instrucciones en el capítulo "Antenas (Page 38)" y para una ganancia máxima de antena de 14.2 dBi. Con este equipo no está permitido usar antenas que no figuren en las instrucciones de servicio o tengan una ganancia de más de 14.2 dBi. La impedancia requerida de la antena es de 50 Ω.

1.4.5 Notes for Taiwan

For LP0002

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

For WiFi 5G

1.4 Country-specific notes

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。

設備名稱：SCALANCE WxM766-1						
型號（型式）：MSAX65-W1-M12-E2						
單元 Unit	限用物質及其化學符號					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominate d biphenyls (PBB)	多溴二苯醚 Polybrominate d diphenyl ethers (PBDE)
Mechanical Assembly (plastic parts)	○	○	○	○	○	○
Assembled printed circuit board (APCB)	超出0.1 wt %	○	○	○	○	○
Mechanical Assembly (metal parts)	超出0.1 wt %	○	○	○	○	○
Other components	○	○	○	○	○	○
備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。 Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2 : "o" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考3. “-”係指該項限用物質為排除項目。 Note 3 : The "-" indicates that the restricted substance corresponds to the exemption.						

1.4.6 Notes for the United States (FCC approval)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Siemens may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Professional Installation Notice:

To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

The approval applies to the following products:

Product	Article number	FCC-ID
Access Points		
SCALANCE WAM766-1	6GK5766-1GE00-7DB0	LYHMSAX65V1
SCALANCE WAM766-1 EEC	6GK5766-1GE00-7TB0	LYHMSAX65V1
Client		
SCALANCE WUM766-1	6GK5766-1GE00-3DB0	LYHMSAX65V1

1.5 Overview of country approvals

The following table lists the countries in which the SCALANCE WxM766-1 product is approved.

All countries or frequency ranges in which only time-limited approval applies are marked with the rhombus symbol (◆). This marking is for information purposes. Time-limited approvals are usually extended by Siemens in the time between delivery release and product phase-out of the devices. The current status of the approvals can be found on the Internet at the following address: Approvals (<https://www.siemens.com/wireless-approvals>).

1.5 Overview of country approvals

Depending on the country and installation conditions, specific restrictions apply to the antennas used and the permissible transmit power. You can find more information on selecting and using suitable antennas in section "Overview of antennas (Page 38)". The maximum possible transmit power (PWR) is specified in the following table. This cannot be reached with every antenna configuration. Configure the device in such a way that the specified transmit power (PWR) is not exceeded. Observe the notes on configuring the device via the WBM or CLI.

Column	Meaning
Country	Country
Mode	IEEE 802.11 standard and the DFS functionality, where required
CH	IEEE 802.11 channel
MHz	IEEE 802.11 frequency
PWR (EIRP)	Maximum permitted effective isotropic radiated power
Max. permitted gain	Maximum permitted antenna gain if there are additional restrictions
Use	Permitted use indoors and / or outdoors

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Albania Andorra Austria Belgium Bosnia and Herzegovina Bulgaria Croatia Denmark Germany Estonia Finland France Greece Ireland Iceland	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			Indoor + Outdoor
		100	5500	30 dBm	-	
		-	-			
		140 ¹⁾	5700			

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Italy Latvia Liechtenstein Lithuania Luxembourg Malta Monaco Montenegro Netherlands Norway Poland Portugal Romania San Marino Sweden Switzerland Slovakia Slovenia Spain Czech Republic Hungary Vatican Cyprus 	11a 11ac 11ax 11n	149 - 173	5745 - 5865	14 dBm	-	Indoor + Outdoor
Egypt ^{2) 4)}	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
		36 - 48	5180 - 5240	23 dBm	-	Indoor only
		52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
	11a 11ac 11ax 11n DFS	36 - 48	5180 - 5240	23 dBm	-	Indoor only
		52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
Angola ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
		36 - 48	5180 - 5240	23 dBm	-	Indoor only
		52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
	11a 11ac 11ax 11n DFS	100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
		149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
		149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor

1.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Argentina ♦	11ax 11g 11n	1	2412	36 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor + Outdoor
		-	-			
		48	5240			
	11a 11ac 11ax 11n	52	5260	30 dBm	-	Indoor + Outdoor
		-	-			
		64	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		116	5580			
	11a 11ac 11ax 11n	132	5660	30 dBm	-	Indoor + Outdoor
		-	-			
		144	5720			
Australia	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		116 ¹⁾	5580			
	11a 11ac 11ax 11n	132	5660	30 dBm	-	Indoor + Outdoor
		-	-			
		144 ¹⁾	5720			
Bahamas ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	29 dBm	-	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
		100	5500	29 dBm	-	Indoor + Outdoor
		-	-			
		144 ¹⁾	5720			
	11a 11ac 11ax 11n	149	5745	36 dBm	-	Indoor + Outdoor
Bahrain ♦	11ax 11g 11n	-	-			
		13	2472			
		36	5180	23 dBm	-	Indoor only
		-	-			
	11a 11ac 11ax 11n DFS	48	5240			
		52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
Brazil ²⁾ ♦	11ax 11g 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
		-	-			
	11a 11ac 11ax 11n	1	2412	29 dBm	6 dBi	Indoor + Outdoor
		-	-			
		13	2472			
		-	-			
	11a 11ac 11ax 11n DFS	36	5180	26 dBm	9 dBi	Indoor only
		-	-			
		48	5240			
		-	-			
Chile	11a 11ac 11ax 11n DFS	52	5260	26 dBm	9 dBi	Indoor only
		-	-			
		64 ¹⁾	5320			
		-	-			
	11a 11ac 11ax 11n	100	5500	26 dBm	9 dBi	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
		-	-			
	11a 11ac 11ax 11n	149	5745	30 dBm	7 dBi	Indoor + Outdoor
		-	-			
		165	5825			
		-	-			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
		-	-			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
		-	-			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			
		-	-			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
		-	-			

1.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
China ²⁾ ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	33 dBm	-	Indoor + Outdoor
Costa Rica	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
Ecuador ²⁾	11ax 11g 11n	1 - 11	2412 - 2462	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 144 ¹⁾	5500 - 5720	29 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	36 dBm	-	Indoor + Outdoor
Ivory Coast ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor

1.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Guatemala	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
100		5500	30 dBm	-	Indoor + Outdoor	
	-	-				
140 ¹⁾	5700					
11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor	
	-	-				
	165	5825				
Hong Kong ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
	140 ¹⁾	5700				
11a 11ac 11ax 11n	149	5745	36 dBm	-	Indoor + Outdoor	
	-	-				
	165	5825				
India ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
	140 ¹⁾	5700				
11a 11ac 11ax 11n	149	5745	36 dBm	-	Indoor + Outdoor	
	-	-				
	165	5825				

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Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use	
Israel ^{2) 4)} ♦	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor	
		-	-				
		13	2472				
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only	
		-	-				
		48					
11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only		
	-	-					
	64 ¹⁾	5320					
Japan ²⁾	11ax 11g 11n	1	2412	23 dBm	-	Indoor + Outdoor	
		-	-				
		13	2472				
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only	
		-	-				
		48	5240				
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	-	Indoor only	
		-	-				
		64 ¹⁾	5320				
		100	5500	30 dBm	-	Indoor + Outdoor	
	11a 11ac 11ax 11n	-	-				
		144 ¹⁾	5720				
184		4920	30 dBm	-	Indoor + Outdoor		
11a 11ac 11ax 11n	-	-					
	196 ^{5) 6)}	4980					
	Canada ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
-			-				
11			2462				
11a 11ac 11ax 11n		36	5180	23 dBm	-	Indoor only	
		-	-				
		48	5240				
11a 11ac 11ax 11n DFS		52	5260	29 dBm	-	Indoor + Outdoor	
		-	-				
		64 ¹⁾	5320				
		100	5500	29 dBm	-	Indoor + Outdoor	
11a 11ac 11ax 11n		-	-				
		144 ¹⁾	5720				
	149	5745	36 dBm	-	Indoor + Outdoor		
11a 11ac 11ax 11n	165	5825					
	Qatar	11ax 11g 11n	1	2412	20 dBm	-	Indoor only
			-	-			
13			2472				
11a 11ac 11ax 11n		36	5180	23 dBm	-	Indoor only	
		-	-				
		48	5240				
11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only		
	-	-					
	64 ¹⁾	5320					

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
		100	5500	30 dBm	-	Indoor only
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor only
		-	-			
		165	5825			
Colombia	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
		149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
Korea, Republic of ²⁾	11ax 11g 11n	1	2412	23 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor + Outdoor
		-	-			
		44	5220			
	11a 11ac 11ax 11n DFS	48	5240	17 dBm	-	Indoor + Outdoor
		52	5260	23 dBm	-	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			
Kuwait ♦	11ax 11g 11n	100	5500	23 dBm	-	Indoor + Outdoor
		-	-			
		144 ¹⁾	5720			
	11a 11ac 11ax 11n	149	5745	23 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	23 dBm	-	Indoor + Outdoor

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Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Macau, China	11ax 11g 11n	1	2412	23 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Madagascar	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Malaysia ²⁾ ♦	11ax 11g 11n	-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		128 ¹⁾	5640			
	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Mexico	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor + Outdoor
		-	-			
		48	5240			
	11a 11ac 11ax 11n	52	5260	30 dBm	-	Indoor + Outdoor
		-	-			
		64	5320			
	11a 11ac 11ax 11n DFS	100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		116 ¹⁾	5580			
Mozambique ♦	11ax 11g 11n	132	5660	30 dBm	-	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	36 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
New Zealand	11a 11ac 11ax 11n	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
	11a 11ac 11ax 11n DFS	100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
	11a 11ac 11ax 11n DFS	100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			

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Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
North Macedonia	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
Oman ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
Pakistan	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 128 ¹⁾	5500 - 5640	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
	11a 11ac 11ax 11n	132	5660	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor + Outdoor
		-	-			
		140	5700			
	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		173	5865			
Peru ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	29 dBm	-	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			
		100	5500	29 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		144 ¹⁾	5720			
		149	5745	36 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
Philippines ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor + Outdoor
		-	-			
		48	5240			
Russian Federation	11g 11n	132	5660	23 dBm	-	Indoor only
		-	-			
		144	5720			
	11a 11ac 11ax 11n	149	5745	23 dBm	-	Indoor only
		-	-			
		165	5825			
		132	5660	23 dBm	-	Indoor only
	11a 11ac 11ax 11n	-	-			
		144	5720			
		149	5745	23 dBm	-	Indoor only

1.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Saudi Arabia ♦	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Serbia ♦	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Singapore ♦	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
South Africa	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Thailand	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Turkey	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		173	5865			

1.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Uruguay ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	20 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	20 dBm	-	Indoor only
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	20 dBm	-	Indoor + Outdoor
United Arab Emirates ♦	11ax 11g 11n	1 - 11	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
United States of America ²⁾ ³⁾	11ax 11g 11n	1 - 11	2412 - 2462	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	30 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	29 dBm	-	Indoor + Outdoor
		100 - 144 ¹⁾	5500 - 5720	29 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	36 dBm	-	Indoor + Outdoor

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
United Kingdom ²⁾	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
Vietnam ♦	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	-	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			

1) In this band, the use of 80 MHz channel width is not permitted.

2) Certain antennas are not permitted to be used in this country. Observe the overview of antennas in the following section.

3) Use US device version

4) Use ME device variant

5) In this country, the use of 40 MHz and 80 MHz channel width is not permitted in the channels 184...196.

6) Approval or license from the local authorities is required to use these channels.

1.6 Overview of antennas

1.6.1 Use of attenuation elements

The minimum transmit power of the SCALANCE W device is 1 dBm (1 TX) or 4 dBm (2 TX). When using antennas with a very high antenna gain, the maximum permitted EIRP (equivalent isotropic radiated power) of the device is often exceeded even at minimum transmit power. In this case, additional attenuation elements such as attenuators or connecting cables must be used between the device and the antennas.

Additional restrictions on the antenna gain apply in some countries. These are listed in the "Max. permitted gain" column in the Overview of country approvals (Page 21). If the antenna gain of the antennas to be connected exceeds the maximum permissible value, you must compensate for the difference by using attenuation elements.

The following table provides an overview of possible attenuation elements and their attenuation values:

Name	Attenuation	Article number
Attenuator	10 dB	6GK5798-0AP00-4CA0
Antenna connecting cable, 1 m long	1.0 dB	6XV1875-5xH10
Antenna connecting cable, 2 m long	1.8 dB	6XV1875-5xH20
Antenna connecting cable, 5 m long	4.3 dB	6XV1875-5xH50
Antenna connecting cable, 10 m long	8.5 dB	6XV1875-5xN10

Example

The antenna ANT793-8DL is used.

- Typical antenna gain: 14 dBi
- Maximum permissible gain for installation according to the Overview of country approvals (Page 21): 11 dBi

In this case the typical antenna gain exceeds the maximum permissible gain by 3 dBi. This means you must use an attenuation element with at least 3 dB. This can be a connecting cable, for example, with a length of 5 meters.

1.6.2 Omnidirectional antennas

The following table provides an overview of the omnidirectional antennas that are approved for the SCALANCE WxM766-1 depending on the country.

Country	ANT792-6MN	ANT795-4MC	ANT795-4MD	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Egypt	✓	✓	✓	✓	✓	✓	✓	✓
Albania	✓	✓	✓	✓	✓	✓	✓	✓
Andorra	✓	✓	✓	✓	✓	✓	✓	✓
Angola	✓	✓	✓	✓	✓	✓	✓	✓
Argentina	✓	✓	✓	✓	✓	✓	✓	✓

Country	ANT792-6MN	ANT795-4MC	ANT795-4MD	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Australia	✓	✓	✓	✓	✓	✓	✓	✓
Bahamas	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Bahrain	✓	✓	✓	✓	✓	✓	✓	✓
Belgium	✓	✓	✓	✓	✓	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓	✓	✓	✓	✓	✓
Brazil	✓	✓	✓	✓	✓	✓	-	-
Bulgaria	✓	✓	✓	✓	✓	✓	✓	✓
Chile	✓	✓	✓	✓	✓	✓	✓	✓
China	✓	✓	✓	✓	✓	✓	-	-
Costa Rica	✓	✓	✓	✓	✓	✓	✓	✓
Denmark	✓	✓	✓	✓	✓	✓	✓	✓
Germany	✓	✓	✓	✓	✓	✓	✓	✓
Ecuador	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Ivory Coast	✓	✓	✓	✓	✓	✓	✓	✓
Estonia	✓	✓	✓	✓	✓	✓	✓	✓
Finland	✓	✓	✓	✓	✓	✓	✓	✓
France	✓	✓	✓	✓	✓	✓	✓	✓
Greece	✓	✓	✓	✓	✓	✓	✓	✓
Guatemala	✓	✓	✓	✓	✓	✓	✓	✓
Hong Kong	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
India	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Ireland	✓	✓	✓	✓	✓	✓	✓	✓
Iceland	✓	✓	✓	✓	✓	✓	✓	✓
Israel	✓	✓	✓	✓	✓	✓	✓	✓
Italy	✓	✓	✓	✓	✓	✓	✓	✓
Japan	✓	✓	✓	✓	✓	✓	-	✓
Canada	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	✓	✓
Qatar	✓	✓	✓	✓	✓	✓	✓	✓
Colombia	✓	✓	✓	✓	✓	✓	✓	✓
Korea, Republic of	✓	✓	-	✓	✓	✓	-	-
Croatia	✓	✓	✓	✓	✓	✓	✓	✓
Kuwait	✓	✓	✓	✓	✓	✓	✓	✓
Latvia	✓	✓	✓	✓	✓	✓	✓	✓
Liechtenstein	✓	✓	✓	✓	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓	✓	✓	✓	✓
Macau	✓	✓	✓	✓	✓	✓	✓	✓
Madagascar	✓	✓	✓	✓	✓	✓	✓	✓
Malaysia	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Malta	✓	✓	✓	✓	✓	✓	✓	✓
Mexico	✓	✓	✓	✓	✓	✓	✓	-
Monaco	✓	✓	✓	✓	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓	✓	✓	✓	✓

1.6 Overview of antennas

Country	ANT792-6MN	ANT795-4MC	ANT795-4MD	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Mozambique	✓	✓	✓	✓	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓	✓	✓	✓	✓
North Macedonia	✓	✓	✓	✓	✓	✓	✓	✓
Norway	✓	✓	✓	✓	✓	✓	✓	✓
Oman	✓	✓	✓	✓	✓	✓	✓	✓
Austria	✓	✓	✓	✓	✓	✓	✓	✓
Pakistan	✓	✓	✓	✓	✓	✓	✓	✓
Peru	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Philippines	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	-	-
Poland	✓	✓	✓	✓	✓	✓	✓	✓
Portugal	✓	✓	✓	✓	✓	✓	✓	✓
Romania	✓	✓	✓	✓	✓	✓	✓	✓
Russian Federation	✓	✓	✓	✓	✓	✓	✓	✓
San Marino	✓	✓	✓	✓	✓	✓	✓	✓
Saudi Arabia	✓	✓	✓	✓	✓	✓	✓	✓
Sweden	✓	✓	✓	✓	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓	✓	✓	✓	✓
Serbia	✓	✓	✓	✓	✓	✓	✓	✓
Singapore	✓	✓	✓	✓	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓	✓	✓	✓	✓
Spain	✓	✓	✓	✓	✓	✓	✓	✓
South Africa	✓	✓	✓	✓	✓	✓	✓	✓
Thailand	✓	✓	✓	✓	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓	✓	✓	✓	✓
Turkey	✓	✓	✓	✓	✓	✓	✓	✓
Hungary	✓	✓	✓	✓	✓	✓	✓	✓
Uruguay	✓	✓	✓	✓	✓	✓	✓	✓
Vatican	✓	✓	✓	✓	✓	✓	✓	✓
United Arab Emirates	✓	✓	✓	✓	✓	✓	✓	✓
United States of America	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	✓	✓	✓
United Kingdom	✓	✓	✓	✓	✓	✓	✓	-
Vietnam	✓	✓	✓	✓	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓	✓	✓	✓	✓

1) The antennas can only be used together with a flexible connecting cable with a length of $\geq 2\text{m}$.

1.6.3 Directional antennas

The following table provides an overview of the directional antennas that are approved for the SCALANCE WxM766-1 depending on the country.

Country	ANT792-8DN	ANT793-6DG	ANT793-8DJ	ANT793-8DK	ANT793-8DL	ANT793-8DP	ANT795-6DC
Egypt	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Albania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Andorra	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Angola	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Argentina	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Australia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Bahamas	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Bahrain	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Belgium	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Brazil	-	✓	-	-	-	-	✓
Bulgaria	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Chile	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
China	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Costa Rica	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Denmark	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Germany	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Ecuador	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Ivory Coast	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Estonia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Finland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
France	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Greece	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Guatemala	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Hong Kong	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
India	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Ireland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Iceland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Israel	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Italy	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Japan	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Canada	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Qatar	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Colombia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Korea, Republic of	-	✓	✓ ²⁾	-	✓	✓	✓
Croatia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Kuwait	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Latvia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Liechtenstein	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Lithuania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓

1.6 Overview of antennas

Country	ANT792-8DN	ANT793-6DG	ANT793-8DJ	ANT793-8DK	ANT793-8DL	ANT793-8DP	ANT795-6DC
Luxembourg	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Macau	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Madagascar	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Malaysia	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Malta	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Mexico	✓	✓	-	-	✓	✓	✓
Monaco	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Montenegro	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Mozambique	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
New Zealand	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Netherlands	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
North Macedonia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Norway	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Oman	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Austria	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Pakistan	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Peru	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Philippines	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Poland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Portugal	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Romania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Russian Federation	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
San Marino	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Saudi Arabia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Sweden	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Switzerland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Serbia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Singapore	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Slovakia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Slovenia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Spain	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
South Africa	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Thailand	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Czech Republic	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Turkey	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Hungary	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Uruguay	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Vatican	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
United Arab Emirates	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
United States of America	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ²⁾	-	✓	✓ ¹⁾
United Kingdom	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓

Country	ANT792-8DN	ANT793-6DG	ANT793-8DJ	ANT793-8DK	ANT793-8DL	ANT793-8DP	ANT795-6DC
Vietnam	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Cyprus	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓

1) The antennas can only be used together with a flexible connecting cable with a length of $\geq 2\text{m}$.

2) The antennas can only be used together with a flexible connecting cable with a length of $\geq 5\text{m}$.

3) The antennas can only be used together with a flexible connecting cable with a length of $\geq 10\text{m}$.

1.6.4 RCoax antennas

The following table provides an overview of the RCoax antennas that are approved for the SCALANCE WxM766-1 depending on the country.

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Egypt	✓	✓	✓	✓
Albania	✓	✓	✓	✓
Andorra	✓	✓	✓	✓
Angola	✓	✓	✓	✓
Argentina	✓	✓	✓	✓
Australia	✓	✓	✓	✓
Bahamas	-	-	-	-
Bahrain	✓	✓	✓	✓
Belgium	✓	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓	✓
Brazil	✓	✓	✓	✓
Bulgaria	✓	✓	✓	✓
Chile	✓	✓	✓	✓
China	✓	✓	✓	✓
Costa Rica	✓	✓	✓	✓
Denmark	✓	✓	✓	✓
Germany	✓	✓	✓	✓
Ecuador	-	-	-	-
Ivory Coast	✓	✓	✓	✓
Estonia	✓	✓	✓	✓
Finland	✓	✓	✓	✓
France	✓	✓	✓	✓
Greece	✓	✓	✓	✓
Guatemala	✓	✓	✓	✓
Hong Kong	-	-	-	-
India	-	-	-	-
Ireland	✓	✓	✓	✓
Iceland	✓	✓	✓	✓
Israel	✓	✓	✓	✓
Italy	✓	✓	✓	✓

1.6 Overview of antennas

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Japan	✓	✓	✓	✓
Canada	-	✓	-	✓ ¹⁾
Qatar	✓	✓	✓	✓
Colombia	✓	✓	✓	✓
Korea, Republic of	✓	✓	✓	✓
Croatia	✓	✓	✓	✓
Kuwait	✓	✓	✓	✓
Latvia	✓	✓	✓	✓
Liechtenstein	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓
Macau	✓	✓	✓	✓
Madagascar	✓	✓	✓	✓
Malaysia	-	-	-	-
Malta	✓	✓	✓	✓
Mexico	✓	✓	✓	✓
Monaco	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓
Mozambique	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓
North Macedonia	✓	✓	✓	✓
Norway	✓	✓	✓	✓
Oman	✓	✓	✓	✓
Austria	✓	✓	✓	✓
Pakistan	✓	✓	✓	✓
Peru	-	-	-	-
Philippines	-	-	-	-
Poland	✓	✓	✓	✓
Portugal	✓	✓	✓	✓
Romania	✓	✓	✓	✓
Russian Federation	✓	✓	✓	✓
San Marino	✓	✓	✓	✓
Saudi Arabia	✓	✓	✓	✓
Sweden	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓
Serbia	✓	✓	✓	✓
Singapore	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓
Spain	✓	✓	✓	✓
South Africa	✓	✓	✓	✓
Thailand	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓
Turkey	✓	✓	✓	✓

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Hungary	✓	✓	✓	✓
Uruguay	✓	✓	✓	✓
Vatican	✓	✓	✓	✓
United Arab Emirates	✓	✓	✓	✓
United States of America	-	✓	-	✓ ¹⁾
United Kingdom	✓	✓	✓	✓
Vietnam	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓

1) In this country, the use of RCoax Cable is not permitted in the channels 52 ... 140/144.

Note

Issued approvals on the type plate of the device

The specified approvals apply only when the corresponding mark is printed on the product. You can check which of the following approvals have been granted for your product by the markings on the type plate.

2.1 Type designations

Scope of validity

The approvals listed in this section apply to the following products:

Product	Article number	Model
Access points		
SCALANCE WAM763-1	6GK5763-1AL00-7DA0 (DI/DO) 6GK5763-1AL00-7DB0 (US) (DI/DO) 6GK5763-1AL00-7DC0 (ME) (DI/DO)	MSAX-W1-RJ-E2
Client		
SCALANCE WUM763-1	6GK5763-1AL00-3AA0 6GK5763-1AL00-3AB0 (US)	MSAX-W1-RJ-E2-NO
	6GK5763-1AL00-3DA0 (DI/DO) 6GK5763-1AL00-3DB0 (US) (DI/DO)	MSAX-W1-RJ-E2

2.2 EC declaration of conformity



The EU Declaration of Conformity is available for all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

You can find the current EU declaration of conformity for these products on the Internet pages under Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following EU directives:

- ATEX directive 2014/34/EU

Directive of the European Parliament and the Council of 26 February 2014 on the approximation of the laws of the member states concerning equipment and protective systems intended for use in potentially explosive atmospheres, official journal of the EU L96, 29/03/2014, pages 309–356

- RoHS directive 2011/65/EU

Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, official journal of the EC L174, 01/07/2011, pages 88-110

- Radio equipment directive 2014/53/EU (RED, Radio Equipment Directive)

Directive of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the member states relating to placing radio equipment on the market; official journal of the EU L153, 22/05/2014, pages 62–106

2.2.1 ATEX

ATEX directive (correct usage in potentially explosive atmospheres)

The SIMATIC NET product meets the requirements of the EU Directive 2014/34/EU "Equipment and Protective Devices for Use in Potentially Explosive Atmospheres".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

2.2.2 RoHS

RoHS directive (restriction of the use of certain hazardous substances)

The SIMATIC NET product meets the requirements of the EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment:

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

2.2.3 RED

2.2.3.1 Protection of health and safety

Article 3 (1) a) protection of health and safety

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

2.2.3.2 EMC

Art. 3 (1) b) - EMC

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements
- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements

- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

2.2.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

2.2.4 Other technical standards

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

2.2.5 Products

CE conformity

The standards applying to the product are described in ATEX (Page 48), RoHS (Page 48) and RED (Page 49).

Product	Standards
SCALANCE WAM763-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUM763-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28, 29,30,31,32,33,34

2.3



UK Declaration of Conformity

The UK declaration of conformity is available to all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

Importer UK:

Siemens plc,
Manchester M20 2UR
United Kingdom

You can find the current UK Declaration of Conformity for these products on the Internet pages under Siemens Industry Online Support

(<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following directives:

- UK Regulation
SI 2016/1107 The Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, and related amendments
- RoHS Regulation
SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, and related amendments
- Radio Equipment Regulation
SI 2017/1206 The Radio Equipment Regulations 2017

2.3.1 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

Correct usage in potentially explosive atmospheres

The SIMATIC NET product meets the requirements of "Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

2.3.2 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Restriction of the use of certain hazardous substances

The SIMATIC NET product meets the requirements of "The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012".

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

2.3.3 Radio Equipment Regulations 2017

2.3.3.1 Protection of health and safety

Article 3 (1) a) protection of health and safety

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

2.3.3.2 EMC

Art. 3 (1) b) - EMC

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements

- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

2.3.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

2.3.4 Other technical standards

Art. 3 (3) a)-i) Delegated acts for radio equipment

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

UK conformity

The standards applying to the product are described in Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (Page 52), Radio Equipment Regulations 2017 (Page 53) and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (Page 53).

Product	Standards
SCALANCE WAM763-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUM763-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

2.4 Country-specific notes**2.4.1 Notes for Brazil**

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL (www.anatel.gov.br)

2.4.2 Note for Australia and New Zealand

You will find the current document, Supplier's declaration of conformity, for these products on the Internet pages of Siemens Industry Online Support: (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>)

2.4.3 Notices for Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device..

This radio transmitter 267AA-MSAXV1 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Approved Antennas: (Page 69)

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to the device.

This equipment complies with ISSED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

The approval applies to the following products:

Product	Article number	Certification Number
Access points		
SCALANCE WAM763-1	6GK5763-1AL00-7DA0	267AA-MSAXV1
Client		
SCALANCE WUM763-1	6GK5763-1AL00-3AA0	267AA-MSAXV1
	6GK5763-1AL00-3DA0	267AA-MSAXV1

2.4.4 Notes for Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) Es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Este equipo ha sido diseñado para operar con las antenas enlistadas en el manual de instrucciones en el capítulo "Antenas (Page 38)" y para una ganancia máxima de antena de 14.2 dBi. Con este equipo no está permitido usar antenas que no figuren en las instrucciones de servicio o tengan una ganancia de más de 14.2 dBi. La impedancia requerida de la antena es de 50 Ω.

2.4.5 Notes for the United States (FCC approval)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Siemens may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment

generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Professional Installation Notice:

To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

The approval applies to the following products:

Product	Article number	FCC-ID
Access Points		
SCALANCE WAM763-1	6GK5763-1AL00-7DB0	LYHMSAXV1
Client		
SCALANCE WUM763-1	6GK5763-1AL00-3AB0	LYHMSAXV1
	6GK5763-1AL00-3DB0	LYHMSAXV1

2.5 Overview of country approvals

The following table lists the countries in which the SCALANCE WxM763-1 product is approved.

All countries or frequency ranges in which only time-limited approval applies are marked with the rhombus symbol (◆). This marking is for information purposes. Time-limited approvals are usually extended by Siemens in the time between delivery release and product phase-out of the devices. The current status of the approvals can be found on the Internet at the following address: Approvals (<https://www.siemens.com/wireless-approvals>).

Depending on the country and installation conditions, specific restrictions apply to the antennas used and the permissible transmit power. You can find more information on selecting and using suitable antennas in section "Overview of antennas (Page 69)". The maximum possible transmit power (PWR) is specified in the following table. This cannot be

reached with every antenna configuration. Configure the device in such a way that the specified transmit power (PWR) is not exceeded. Observe the notes on configuring the device via the WBM or CLI.

Column	Meaning
Country	Country
Mode	IEEE 802.11 standard and the DFS functionality, where required
CH	IEEE 802.11 channel
MHz	IEEE 802.11 frequency
PWR (EIRP)	Maximum permitted effective isotropic radiated power
Max. permitted gain	Maximum permitted antenna gain if there are additional restrictions
Use	Permitted use indoors and / or outdoors

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Albania	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
Andorra		-	-			
Austria		13	2472			
Belgium	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
Bosnia and Herzegovina		-	-			
Bulgaria		48	5240			
Croatia	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
Denmark		-	-			
Germany		64 ¹⁾	5320			Indoor + Outdoor
Estonia		100	5500	30 dBm	-	
Finland		-	-			
France		140 ¹⁾	5700			
Greece						
Ireland						
Iceland						

2.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use	
Italy Latvia Liechtenstein Lithuania Luxembourg Malta Monaco Montenegro Netherlands Norway Poland Portugal Romania San Marino Sweden Switzerland Slovakia Slovenia Spain Czech Republic Hungary Vatican Cyprus 	11a 11ac 11ax 11n	149 - 173 ⁴⁾	5745 - 5865	14 dBm	-	Indoor + Outdoor	
Egypt ^{2) 6)}	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor	
		36 - 48	5180 - 5240	23 dBm	-	Indoor only	
		52 - DFS 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only	
	Australia	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
			36 - 48	5180 - 5240	23 dBm	-	Indoor only
			52 - DFS 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor	
11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor		

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Chile	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor + Outdoor
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
China ^{2) 5)} ♦	11ax 11g 11n	-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	-	Indoor only
		-	-			
		64 ¹⁾	5320			
Hong Kong ^{2) 5)}	11ax 11g 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	36 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			

2.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
India	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			Indoor + Outdoor
		100	5500	30 dBm	-	
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
Israel ^{2) 6)} ♦	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
Japan ²⁾	11ax 11g 11n	1	2412	23 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	-	Indoor only
		-	-			
		64 ¹⁾	5320			Indoor + Outdoor
		100	5500	30 dBm	-	
		-	-			
		144 ¹⁾	5720			
	11a 11ac 11ax 11n	184	4920	30 dBm	-	Indoor + Outdoor
		-	-			
		196 ^{7) 8)}	4980			
Canada ²⁾	11ax 11g 11n	1	2412	28 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
	11a 11ac 11ax 11n DFS	52	5260	29 dBm	-	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	29 dBm	-	Indoor + Outdoor
		-	-			
		116 ¹⁾	5580			
Qatar ⁵⁾	11ax 11g 11n	132	5660	29 dBm	-	Indoor + Outdoor
		-	-			
		144 ¹⁾	5720			
	11a 11ac 11ax 11n	149	5745	35 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	10 dBi	Indoor only
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	10 dBi	Indoor only
		-	-			
		48	5240			
Colombia ⁵⁾	11a 11ac 11ax 11n DFS	52	5260	23 dBm	10 dBi	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	10 dBi	Indoor only
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	10 dBi	Indoor only
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor + Outdoor
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		140 ¹⁾	5700			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			

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Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Mexico ²⁾	11ax 11g 11n	1	2412	30 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor + Outdoor
		-	-			
		48	5240			
	11a 11ac 11ax 11n	52	5260	30 dBm	-	Indoor + Outdoor
		-	-			
		64	5320			
	11a 11ac 11ax 11n DFS	100	5500	30 dBm	-	Indoor + Outdoor
		-	-			
		116 ¹⁾	5580			
		132	5660	30 dBm	-	Indoor + Outdoor
New Zealand	11ax 11g 11n	-	-			
		13	2472			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
North Macedonia ⁵⁾	11ax 11g 11n	-	-			
		13	2472			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor

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Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Oman ♦	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
Pakistan ⁵⁾	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 128 ¹⁾	5500 - 5640	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
	11a 11ac 11ax 11n	132 - 140 ¹⁾	5660 - 5700	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 173	5745 - 5865	30 dBm	-	Indoor + Outdoor
Russian Federation	11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 64	5180 - 5320	23 dBm	-	Indoor only
		132 - 144	5660 - 5720	23 dBm	-	Indoor only

2.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	23 dBm	-	Indoor only
Saudi Arabia ⁵⁾ ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	14 dBm	-	Indoor + Outdoor
Serbia ♦	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165 ⁴⁾	5745 - 5825	14 dBm	-	Indoor + Outdoor
Singapore ^{2) 5)} ♦	11ax 11g 11n	1 - 13	2412 - 2472	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor + Outdoor
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
South Africa	11a 11ac 11ax 11n	149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
		149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
Thailand	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			
		149	5745	30 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
Turkey	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n DFS	52	5260	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		-	-			
		64 ¹⁾	5320			
		100	5500	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	-	-			
		140 ¹⁾	5700			

2.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
United States of America ²⁾ ³⁾	11a 11ac 11ax 11n	149 - 173 ⁴⁾	5745 - 5865	14 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 11	2412 - 2462	28 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	30 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	29 dBm	-	Indoor + Outdoor
		100 - 144 ¹⁾	5500 - 5720	29 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	35 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	20 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	11 dBi (2 Tx) 14,2 dBi (1 Tx)	Indoor only
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
United Kingdom	11a 11ac 11ax 11n	149 - 173 ⁴⁾	5745 - 5865	14 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	149 - 173 ⁴⁾	5745 - 5865	14 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
Vietnam ⁵⁾ ♦	11a 11ac 11ax 11n	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
	11ax 11g 11n	1 - 13	2412 - 2472	23 dBm	-	Indoor + Outdoor
	11a 11ac 11ax 11n	36 - 48	5180 - 5240	23 dBm	-	Indoor only
	11a 11ac 11ax 11n DFS	52 - 64 ¹⁾	5260 - 5320	23 dBm	-	Indoor + Outdoor
		100 - 140 ¹⁾	5500 - 5700	30 dBm	-	Indoor + Outdoor

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
	11a 11ac 11ax 11n	149 - 165	5745 - 5825	30 dBm	-	Indoor + Outdoor

- 1) In this band, the use of 80 MHz channel width is not permitted.
- 2) Certain antennas are not permitted to be used in this country. Observe the overview of antennas in the following section.
- 3) Use US device version.
- 4) Installation with the connectors facing downwards (e.g. rotated by 90° with DIN rail mounting adapter) is not allowed in this frequency range.
- 5) In this country, the device variant 6GK5763-1AL00-3AA0 is not approved.
- 6) Use ME device variant
- 7) In this country, the use of 40 MHz and 80 MHz channel width is not permitted in the channels 184...196.
- 8) Approval or license from the local authorities is required to use these channels.

2.6 Overview of antennas

2.6.1 Use of attenuation elements

The minimum transmit power of the SCALANCE W device is 1 dBm (1 TX) or 4 dBm (2 TX). When using antennas with a very high antenna gain, the maximum permitted EIRP (equivalent isotropic radiated power) of the device is often exceeded even at minimum transmit power. In this case, additional attenuation elements such as attenuators or connecting cables must be used between the device and the antennas. Additional restrictions on the antenna gain apply in some countries. These are listed in the "Max. permitted gain" column in the Overview of country approvals (Page 58). If the antenna gain of the antennas to be connected exceeds the maximum permissible value, you must compensate for the difference by using attenuation elements.

The following table provides an overview of possible attenuation elements and their attenuation values:

Name	Attenuation	Article number
Attenuator	10 dB	6GK5798-0AP00-4CA0
Antenna connecting cable, 1 m long	1.0 dB	6XV1875-5xH10
Antenna connecting cable, 2 m long	1.8 dB	6XV1875-5xH20
Antenna connecting cable, 5 m long	4.3 dB	6XV1875-5xH50
Antenna connecting cable, 10 m long	8.5 dB	6XV1875-5xN10

Example

The antenna ANT793-8DL is used.

- Typical antenna gain: 14 dBi
- Maximum permissible gain for installation according to the Overview of country approvals (Page 58): 11 dBi

In this case the typical antenna gain exceeds the maximum permissible gain by 3 dBi. This means you must use an attenuation element with at least 3 dB. This can be a connecting cable, for example, with a length of 5 meters.

2.6.2 Omnidirectional antennas

The following table provides an overview of the omnidirectional antennas that are approved for the SCALANCE WxM763-1 depending on the country.

Country	ANT792-6MN	ANT795-4MA	ANT795-4MB	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Egypt	✓	✓	✓	✓	✓	✓	✓	✓
Albania	✓	✓	✓	✓	✓	✓	✓	✓
Andorra	✓	✓	✓	✓	✓	✓	✓	✓
Australia	✓	✓	✓	✓	✓	✓	✓	✓
Belgium	✓	✓	✓	✓	✓	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓	✓	✓	✓	✓	✓
Bulgaria	✓	✓	✓	✓	✓	✓	✓	✓
Chile	✓	✓	✓	✓	✓	✓	✓	✓
China	✓	✓	✓	✓	✓	✓	✓	✓
Denmark	✓	✓	✓	✓	✓	✓	✓	✓
Germany	✓	✓	✓	✓	✓	✓	✓	✓
Estonia	✓	✓	✓	✓	✓	✓	✓	✓
Finland	✓	✓	✓	✓	✓	✓	✓	✓
France	✓	✓	✓	✓	✓	✓	✓	✓
Greece	✓	✓	✓	✓	✓	✓	✓	✓
Hong Kong	✓	✓	✓	✓	✓	✓	✓	✓
India	✓	✓	✓	✓	✓	✓	✓	✓
Ireland	✓	✓	✓	✓	✓	✓	✓	✓
Iceland	✓	✓	✓	✓	✓	✓	✓	✓
Israel	✓	✓	✓	✓	✓	✓	✓	✓
Italy	✓	✓	✓	✓	✓	✓	✓	✓
Japan	✓	✓	✓	✓	✓	✓	✓	✓
Canada	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	-	✓	✓
Qatar	✓	✓	✓	✓	✓	✓	✓	✓
Colombia	✓	✓	✓	✓	✓	✓	✓	✓
Croatia	✓	✓	✓	✓	✓	✓	✓	✓
Latvia	✓	✓	✓	✓	✓	✓	✓	✓

Country	ANT792-6MN	ANT795-4MA	ANT795-4MB	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Liechtenstein	✓	✓	✓	✓	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓	✓	✓	✓	✓
Malta	✓	✓	✓	✓	✓	✓	✓	✓
Mexico	✓	✓	✓	✓	✓	✓	✓	✓
Monaco	✓	✓	✓	✓	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓	✓	✓	✓	✓
North Macedonia	✓	✓	✓	✓	✓	✓	✓	✓
Norway	✓	✓	✓	✓	✓	✓	✓	✓
Oman	✓	✓	✓	✓	✓	✓	✓	✓
Austria	✓	✓	✓	✓	✓	✓	✓	✓
Pakistan	✓	✓	✓	✓	✓	✓	✓	✓
Poland	✓	✓	✓	✓	✓	✓	✓	✓
Portugal	✓	✓	✓	✓	✓	✓	✓	✓
Romania	✓	✓	✓	✓	✓	✓	✓	✓
Russian Federation	✓	✓	✓	✓	✓	✓	✓	✓
San Marino	✓	✓	✓	✓	✓	✓	✓	✓
Saudi Arabia	✓	✓	✓	✓	✓	✓	✓	✓
Sweden	✓	✓	✓	✓	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓	✓	✓	✓	✓
Serbia	✓	✓	✓	✓	✓	✓	✓	✓
Singapore	✓	✓	✓	✓	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓	✓	✓	✓	✓
Spain	✓	✓	✓	✓	✓	✓	✓	✓
South Africa	✓	✓	✓	✓	✓	✓	✓	✓
Thailand	✓	✓	✓	✓	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓	✓	✓	✓	✓
Turkey	✓	✓	✓	✓	✓	✓	✓	✓
Hungary	✓	✓	✓	✓	✓	✓	✓	✓
Vatican	✓	✓	✓	✓	✓	✓	✓	✓
United States of America	✓ ¹⁾	✓	✓	✓	✓ ¹⁾	-	✓	✓
United Kingdom	✓	✓	✓	✓	✓	✓	✓	✓
Vietnam	✓	✓	✓	✓	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓	✓	✓	✓	✓

1) The antennas can only be used together with a flexible connecting cable with a length of $\geq 2\text{m}$.

2.6.3 Directional antennas

The following table provides an overview of the directional antennas that are approved for the SCALANCE WxM763-1 depending on the country.

Country	ANT792-8DN	ANT793-6DG	ANT793-8DJ	ANT793-8DK	ANT793-8DL	ANT793-8DP	ANT795-6DC
Egypt	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Albania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Andorra	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Australia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Belgium	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Bulgaria	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Chile	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
China	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Denmark	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Germany	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Estonia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Finland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
France	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Greece	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Hong Kong	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
India	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Ireland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Iceland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Israel	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Italy	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Japan	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Canada	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
Qatar	-	✓	-	-	-	-	✓
Colombia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Croatia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Latvia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Liechtenstein	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Lithuania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Luxembourg	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Malta	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Mexico	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Monaco	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Montenegro	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
New Zealand	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Netherlands	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
North Macedonia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Norway	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Oman	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Austria	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓

Country	ANT792-8DN	ANT793-6DG	ANT793-8DJ	ANT793-8DK	ANT793-8DL	ANT793-8DP	ANT795-6DC
Pakistan	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Poland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Portugal	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Romania	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Russian Federation	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
San Marino	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Saudi Arabia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Sweden	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Switzerland	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Serbia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Singapore	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Slovakia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Slovenia	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Spain	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
South Africa	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Thailand	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Czech Republic	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Turkey	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Hungary	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Vatican	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
United States of America	✓ ¹⁾	✓ ¹⁾	✓ ²⁾	✓ ³⁾	-	✓	✓ ¹⁾
United Kingdom	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Vietnam	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓
Cyprus	✓	✓	✓ ²⁾	✓ ³⁾	✓	✓	✓

1) The antennas can only be used together with a flexible connecting cable with a length of $\geq 2\text{m}$.

2) The antennas can only be used together with a flexible connecting cable with a length of $\geq 5\text{m}$.

3) The antennas can only be used together with a flexible connecting cable with a length of $\geq 10\text{m}$.

2.6.4 RCoax antennas

The following table provides an overview of the RCoax antennas that are approved for the SCALANCE WxM763-1 depending on the country.

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Egypt	✓	✓	✓	✓
Albania	✓	✓	✓	✓
Andorra	✓	✓	✓	✓
Australia	✓	✓	✓	✓
Belgium	✓	✓	✓	✓

2.6 Overview of antennas

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Bosnia and Herzegovina	✓	✓	✓	✓
Bulgaria	✓	✓	✓	✓
Chile	✓	✓	✓	✓
China	✓	✓	✓	✓
Denmark	✓	✓	✓	✓
Germany	✓	✓	✓	✓
Estonia	✓	✓	✓	✓
Finland	✓	✓	✓	✓
France	✓	✓	✓	✓
Greece	✓	✓	✓	✓
Hong Kong	✓	✓	✓	✓
India	✓	✓	✓	✓
Ireland	✓	✓	✓	✓
Iceland	✓	✓	✓	✓
Israel	✓	✓	✓	✓
Italy	✓	✓	✓	✓
Japan	✓	✓	✓	✓
Canada	-	✓	-	✓ ¹⁾
Qatar	✓	✓	✓	✓
Colombia	✓	✓	✓	✓
Croatia	✓	✓	✓	✓
Latvia	✓	✓	✓	✓
Liechtenstein	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓
Malta	✓	✓	✓	✓
Mexico	✓	✓	✓	✓
Monaco	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓
North Macedonia	✓	✓	✓	✓
Norway	✓	✓	✓	✓
Oman	✓	✓	✓	✓
Austria	✓	✓	✓	✓
Pakistan	✓	✓	✓	✓
Poland	✓	✓	✓	✓
Portugal	✓	✓	✓	✓
Romania	✓	✓	✓	✓
Russian Federation	✓	✓	✓	✓
San Marino	✓	✓	✓	✓
Saudi Arabia	✓	✓	✓	✓
Sweden	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Serbia	✓	✓	✓	✓
Singapore	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓
Spain	✓	✓	✓	✓
South Africa	✓	✓	✓	✓
Thailand	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓
Turkey	✓	✓	✓	✓
Hungary	✓	✓	✓	✓
Vatican	✓	✓	✓	✓
United States of America	-	✓	-	✓ ¹⁾
United Kingdom	✓	✓	✓	✓
Vietnam	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓

1) In this country, the use of RCoax Cable is not permitted in the channels 52 ... 140/144.

Note**Issued approvals on the type plate of the device**

The specified approvals apply only when the corresponding mark is printed on the product. You can check which of the following approvals have been granted for your product by the markings on the type plate.

3.1 Type designations

Scope of validity

The approvals listed in this section apply to the following products:

Product	Article number	Model
Access points		
SCALANCE WAB762-1	6GK5762-1AJ00-6AA0 6GK5762-1AJ00-6AB0 (US)	ELAX-W1-RJ-E1
Client		
SCALANCE WUB762-1	6GK5762-1AJ00-1AA0 6GK5762-1AJ00-1AB0 (US)	ELAX-W1-RJ-E1
SCALANCE WUB762-1 iFeatures	6GK5762-1AJ00-2AA0 6GK5762-1AJ00-2AB0 (US)	ELAX-W1-RJ-E1

3.2 EC declaration of conformity



The EU Declaration of Conformity is available for all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

You can find the current EU declaration of conformity for these products on the Internet pages under Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following EU directives:

- ATEX directive 2014/34/EU

Directive of the European Parliament and the Council of 26 February 2014 on the approximation of the laws of the member states concerning equipment and protective

systems intended for use in potentially explosive atmospheres, official journal of the EU L96, 29/03/2014, pages 309–356

- RoHS directive 2011/65/EU

Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, official journal of the EC L174, 01/07/2011, pages 88-110

- Radio equipment directive 2014/53/EU (RED, Radio Equipment Directive)

Directive of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the member states relating to placing radio equipment on the market; official journal of the EU L153, 22/05/2014, pages 62–106

3.2.1 ATEX

ATEX directive (correct usage in potentially explosive atmospheres)

The SIMATIC NET product meets the requirements of the EU Directive 2014/34/EU "Equipment and Protective Devices for Use in Potentially Explosive Atmospheres".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

3.2.2 RoHS

RoHS directive (restriction of the use of certain hazardous substances)

The SIMATIC NET product meets the requirements of the EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment:

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

3.2.3 RED

3.2.3.1 Protection of health and safety

Article 3 (1) a) protection of health and safety

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

3.2.3.2 EMC

Art. 3 (1) b) - EMC

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements
- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements

3.2 EC declaration of conformity

- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

3.2.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

3.2.4 Other technical standards

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

3.2.5 Products

CE conformity

The standards applying to the product are described in ATEX (Page 78), RoHS (Page 78) and RED (Page 79).

Product	Standards
SCALANCE WAB762-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUB762-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

3.3



UK Declaration of Conformity

The UK declaration of conformity is available to all responsible authorities at:

Siemens Aktiengesellschaft
Digital Industries
Process Automation
DE-76187 Karlsruhe
Germany

Importer UK:

Siemens plc,
Manchester M20 2UR
United Kingdom

You can find the current UK Declaration of Conformity for these products on the Internet pages under Siemens Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/ps/28575/cert>).

The SIMATIC NET products described in this document meet the requirements of the following directives:

- UK Regulation
SI 2016/1107 The Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, and related amendments
- RoHS Regulation
SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, and related amendments
- Radio Equipment Regulation
SI 2017/1206 The Radio Equipment Regulations 2017

3.3.1 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

Correct usage in potentially explosive atmospheres

The SIMATIC NET product meets the requirements of "Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations".

- 1 EN IEC 60079-0
Hazardous areas - Part 0: Equipment - General requirements
- 2 EN 60079-7
Explosive atmospheres - Part 7: Equipment protection through increased safety "e"

3.3.2 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Restriction of the use of certain hazardous substances

The SIMATIC NET product meets the requirements of "The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012".

Applied standard:

- 3 EN IEC 63000
Technical documentation for the assessment electrical and electronic products with respect to restriction of hazardous substances

3.3.3 Radio Equipment Regulations 2017

3.3.3.1 Protection of health and safety

Article 3 (1) a) protection of health and safety

- 4 EN IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 5 EN IEC 62368-1
Equipment for audio, video, information and communication technology - Part 1: Safety requirements
- 6 EN IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling

3.3.3.2 EMC

Art. 3 (1) b) - EMC

- 7 EN 50121-3-2
Railway applications - Electromagnetic compatibility - part 3-2: Railway Vehicles - Devices
- 8 EN 50121-4
Railway applications - Electromagnetic compatibility - part 4: Interference emissions and immunity of signal telecommunications equipment
- 9 ETSI EN 301 489-1
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 1: Common technical requirements

- 10 ETSI EN 301 489-3
Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) for radio equipment and services – Part 3: Specific conditions for wireless devices with a low range (SRD) for use on frequencies between 9 kHz and 246 GHz
- 11 ETSI EN 301 489-17
Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility for radio equipment and services - Part 17: Specific conditions for broadband data transmission systems
- 12 EN 55011
Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
- 13 EN 55032
Electromagnetic compatibility of multimedia equipment – Emission requirements
- 14 EN 55035
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 15 EN IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 16 EN IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- 17 EN IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 18 EN IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 19 EN IEC 61000-6-8
Generic standards - Emission standard for professional equipment in commercial and light-industrial locations

3.3.3.3 Efficient use of the radio spectrum

Art. 3 (2) Efficient use of the radio spectrum

- 20 ETSI EN 300 328
Broadband transmission systems – Data transmission equipment operating in the 2.4 GHz ISM band and using broadband modulation techniques. Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 21 ETSI EN 300 440
Electromagnetic compatibility and radio spectrum matters (ERM) – short range devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU
- 22 ETSI EN 301 893
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the EU Directive 2014/53/EU

3.3.4 Other technical standards

Art. 3 (3) a)-i) Delegated acts for radio equipment

- 23 CISPR 11
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- 24 CISPR 32
Electromagnetic compatibility of multimedia equipment. Emission requirements
- 25 CISPR 35
Electromagnetic compatibility of multimedia equipment - Immunity requirements
- 26 EN IEC / IEC 61000-6-1
Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
- 27 EN IEC / IEC 61000-6-2
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
- 28 EN IEC / IEC 61000-6-3
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- 29 EN IEC / IEC 61000-6-4
Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
- 30 EN IEC / IEC 61000-6-8
Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations
- 31 EN IEC / IEC 62311
Assessment of electronic and electrical equipment related to human exposure restrictions in electromagnetic fields (0 Hz – 300 GHz)
- 32 EN IEC / IEC 62368-1
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 33 EN IEC / IEC 62368-3
Equipment for audio, video, information and communication technology - Safety - Part 3: DC power transfer through information technology communication cabling
- 34 NAMUR NE21
Automation engineering of modular systems in the process industry - Modelling of module services

3.3.5 Products

UK conformity

The standards applying to the product are described in Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (Page 82), The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (Page 83) and Radio Equipment Regulations 2017 (Page 83).

Product	Standards
SCALANCE WAB762-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34
SCALANCE WUB762-1	1,2,3,4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

3.4 Country-specific notes

3.4 Country-specific notes

3.4.1 Notices for Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter 267AA-ELAXV1 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Approved Antennas: (Page 89)

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to the device.

This equipment complies with ISSED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

The approval applies to the following products:

Product	Article number	Certification Number
Access points		
SCALANCE WAB762-1	6GK5762-1AJ00-6AA0	267AA-ELAXV1
Client		
SCALANCE WUB762-1	6GK5762-1AJ00-1AA0	267AA-ELAXV1
SCALANCE WUB762-1 iFeatures	6GK5762-1AJ00-2AA0	267AA-ELAXV1

3.4.2 Notes for the United States (FCC approval)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Siemens may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Professional Installation Notice:

To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

3.5 Overview of country approvals

The following table lists the countries in which the SCALANCE WxB762-1 product is approved.

The current status of the approvals can be found on the Internet at the following address: Approvals (<https://www.siemens.com/wireless-approvals>). Depending on the country and installation conditions, specific restrictions apply to the antennas used and the permissible transmit power. You can find more information on selecting and using suitable antennas in section "Overview of antennas (Page 89)". The maximum possible transmit power (PWR) is specified in the following table. This cannot be reached with every antenna configuration. Configure the device in such a way that the specified transmit power (PWR) is not exceeded. Observe the notes on configuring the device via the WBM or CLI.

Column	Meaning
Country	Country
Mode	IEEE 802.11 standard and the DFS functionality, where required
CH	IEEE 802.11 channel
MHz	IEEE 802.11 frequency
PWR (EIRP)	Maximum permitted effective isotropic radiated power
Max. permitted gain	Maximum permitted antenna gain if there are additional restrictions
Use	Permitted use indoors and / or outdoors

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Albania	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
Andorra		-	-			
Austria		13	2472			
Belgium	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
Bosnia and Herzegovina		-	-			
Bulgaria		48	5240			
Croatia						

3.5 Overview of country approvals

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
Denmark Germany Estonia Finland France Greece Ireland Iceland Italy Latvia Liechtenstein Lithuania Luxembourg Malta Monaco Montenegro Netherlands Norway Poland Portugal Romania San Marino Sweden Switzerland Slovakia Slovenia Spain Czech Republic Hungary Vatican Cyprus 	11a 11ac 11ax 11n	149 - 173	5745 - 5865	14 dBm	-	Indoor + Outdoor
Canada ¹⁾	11ax 11g 11n	1	2412	28 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
Turkey	11ax 11g 11n	149	5745	35 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			
	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		173	5865			

Country	Mode	CH	MHz	PWR (EIRP)	Max. permitted gain	Use
United Kingdom	11ax 11g 11n	1	2412	20 dBm	-	Indoor + Outdoor
		-	-			
		13	2472			
	11a 11ac 11ax 11n	36	5180	23 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n	149	5745	14 dBm	-	Indoor + Outdoor
		-	-			
		173	5865			
United States of America ¹⁾ ²⁾	11ax 11g 11n	1	2412	28 dBm	-	Indoor + Outdoor
		-	-			
		11	2462			
	11a 11ac 11ax 11n	36	5180	30 dBm	-	Indoor only
		-	-			
		48	5240			
	11a 11ac 11ax 11n	149	5745	35 dBm	-	Indoor + Outdoor
		-	-			
		165	5825			

1) Certain antennas are not permitted to be used in this country. Observe the overview of antennas in the following section.

2) Use US device version.

3.6 Overview of antennas

3.6.1 Use of attenuation elements

The minimum transmit power of the SCALANCE W device is 1 dBm (1 TX) or 4 dBm (2 TX). When using antennas with a very high antenna gain, the maximum permitted EIRP (equivalent isotropic radiated power) of the device is often exceeded even at minimum transmit power. In this case, additional attenuation elements such as attenuators or connecting cables must be used between the device and the antennas.

Additional restrictions on the antenna gain apply in some countries. These are listed in the "Max. permitted gain" column in the Overview of country approvals (Page 87). If the antenna gain of the antennas to be connected exceeds the maximum permissible value, you must compensate for the difference by using attenuation elements.

The following table provides an overview of possible attenuation elements and their attenuation values:

Name	Attenuation	Article number
Attenuator	10 dB	6GK5798-0AP00-4CA0
Antenna connecting cable, 1 m long	1.0 dB	6XV1875-5xH10
Antenna connecting cable, 2 m long	1.8 dB	6XV1875-5xH20

3.6 Overview of antennas

Name	Attenuation	Article number
Antenna connecting cable, 5 m long	4.3 dB	6XV1875-5xH50
Antenna connecting cable, 10 m long	8.5 dB	6XV1875-5xN10

Example

The antenna ANT793-8DL is used.

- Typical antenna gain: 14 dBi
- Maximum permissible gain for installation according to the Overview of country approvals (Page 87): 11 dBi

In this case the typical antenna gain exceeds the maximum permissible gain by 3 dBi. This means you must use an attenuation element with at least 3 dB. This can be a connecting cable, for example, with a length of 5 meters.

3.6.2 Omnidirectional antennas

The following table provides an overview of the omnidirectional antennas that are approved for the SCALANCE WxB762-1 depending on the country.

Country	ANT792-6MN	ANT795-4MA	ANT795-4MB	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Albania	✓	✓	✓	✓	✓	✓	✓	✓
Andorra	✓	✓	✓	✓	✓	✓	✓	✓
Belgium	✓	✓	✓	✓	✓	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓	✓	✓	✓	✓	✓
Bulgaria	✓	✓	✓	✓	✓	✓	✓	✓
Denmark	✓	✓	✓	✓	✓	✓	✓	✓
Germany	✓	✓	✓	✓	✓	✓	✓	✓
Estonia	✓	✓	✓	✓	✓	✓	✓	✓
Finland	✓	✓	✓	✓	✓	✓	✓	✓
France	✓	✓	✓	✓	✓	✓	✓	✓
Greece	✓	✓	✓	✓	✓	✓	✓	✓
Ireland	✓	✓	✓	✓	✓	✓	✓	✓
Iceland	✓	✓	✓	✓	✓	✓	✓	✓
Italy	✓	✓	✓	✓	✓	✓	✓	✓
Canada	✓	✓	✓	✓	✓	✓	✓	✓
Croatia	✓	✓	✓	✓	✓	✓	✓	✓
Latvia	✓	✓	✓	✓	✓	✓	✓	✓
Liechtenstein	✓	✓	✓	✓	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓	✓	✓	✓	✓
Malta	✓	✓	✓	✓	✓	✓	✓	✓
Monaco	✓	✓	✓	✓	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓	✓	✓	✓	✓

Country	ANT792-6MN	ANT795-4MA	ANT795-4MB	ANT795-4MX	ANT795-6MN	ANT795-6MP	ANT897-4ME	ANT897-5PN
Netherlands	✓	✓	✓	✓	✓	✓	✓	✓
Norway	✓	✓	✓	✓	✓	✓	✓	✓
Austria	✓	✓	✓	✓	✓	✓	✓	✓
Poland	✓	✓	✓	✓	✓	✓	✓	✓
Portugal	✓	✓	✓	✓	✓	✓	✓	✓
Romania	✓	✓	✓	✓	✓	✓	✓	✓
San Marino	✓	✓	✓	✓	✓	✓	✓	✓
Sweden	✓	✓	✓	✓	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓	✓	✓	✓	✓
Spain	✓	✓	✓	✓	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓	✓	✓	✓	✓
Turkey	✓	✓	✓	✓	✓	✓	✓	✓
Hungary	✓	✓	✓	✓	✓	✓	✓	✓
Vatican	✓	✓	✓	✓	✓	✓	✓	✓
United Kingdom	✓	✓	✓	✓	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓	✓	✓	✓	✓
United States of America	✓	✓	✓	✓	✓	✓	✓	✓

3.6.3 Directional antennas

The following table provides an overview of the directional antennas that are approved for the SCALANCE WxB762-1 depending on the country.

Country	ANT793-6DG	ANT795-6DC
Albania	✓	✓
Andorra	✓	✓
Belgium	✓	✓
Bosnia and Herzegovina	✓	✓
Bulgaria	✓	✓
Denmark	✓	✓
Germany	✓	✓
Estonia	✓	✓
Finland	✓	✓
France	✓	✓
Greece	✓	✓
Ireland	✓	✓
Iceland	✓	✓
Italy	✓	✓

3.6 Overview of antennas

Country	ANT793-6DG	ANT795-6DC
Croatia	✓	✓
Canada	✓	✓
Latvia	✓	✓
Liechtenstein	✓	✓
Lithuania	✓	✓
Luxembourg	✓	✓
Malta	✓	✓
Monaco	✓	✓
Montenegro	✓	✓
Netherlands	✓	✓
Norway	✓	✓
Austria	✓	✓
Poland	✓	✓
Portugal	✓	✓
Romania	✓	✓
San Marino	✓	✓
Sweden	✓	✓
Switzerland	✓	✓
Slovakia	✓	✓
Slovenia	✓	✓
Spain	✓	✓
Czech Republic	✓	✓
Turkey	✓	✓
Hungary	✓	✓
Vatican	✓	✓
United Kingdom	✓	✓
Cyprus	✓	✓
United States of America	✓	✓

3.6.4 RCoax antennas

The following table provides an overview of the RCoax antennas that are approved for the SCALANCE WxB762-1 depending on the country.

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Albania	✓	✓	✓	✓
Andorra	✓	✓	✓	✓
Belgium	✓	✓	✓	✓
Bosnia and Herzegovina	✓	✓	✓	✓
Bulgaria	✓	✓	✓	✓
Denmark	✓	✓	✓	✓
Germany	✓	✓	✓	✓
Estonia	✓	✓	✓	✓

Country	ANT792-4DN	ANT793-4MN	RCoax Cable 1/2" 2,4 GHz	RCoax Cable 1/2" 5 GHz
Finland	✓	✓	✓	✓
France	✓	✓	✓	✓
Greece	✓	✓	✓	✓
Ireland	✓	✓	✓	✓
Iceland	✓	✓	✓	✓
Italy	✓	✓	✓	✓
Canada	-	✓	-	-
Croatia	✓	✓	✓	✓
Latvia	✓	✓	✓	✓
Liechtenstein	✓	✓	✓	✓
Lithuania	✓	✓	✓	✓
Luxembourg	✓	✓	✓	✓
Malta	✓	✓	✓	✓
Monaco	✓	✓	✓	✓
Montenegro	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓
Norway	✓	✓	✓	✓
Austria	✓	✓	✓	✓
Poland	✓	✓	✓	✓
Portugal	✓	✓	✓	✓
Romania	✓	✓	✓	✓
San Marino	✓	✓	✓	✓
Sweden	✓	✓	✓	✓
Switzerland	✓	✓	✓	✓
Slovakia	✓	✓	✓	✓
Slovenia	✓	✓	✓	✓
Spain	✓	✓	✓	✓
Czech Republic	✓	✓	✓	✓
Turkey	✓	✓	✓	✓
Hungary	✓	✓	✓	✓
Vatican	✓	✓	✓	✓
United Kingdom	✓	✓	✓	✓
Cyprus	✓	✓	✓	✓
United States of America	-	✓	-	-

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