



EU Directive 2014/53/EU - Compliance Information for the Cisco 800 Series Industrial Integrated Services Routers

Scope

The information in this document is applicable to the Cisco IR800 Series Industrial Integrated router products that currently includes the product IDs listed below. These products are intended to be placed on the market within the European Union, Lichtenstein, Switzerland, Iceland, Norway, Turkey and other countries that have implemented the EU Directive 2014/53/EU.

Table 1. The Product IDs covered by this document

Product ID	Description
IR807G-LTE-GA-K9	Multimode LTE/3G/2G cellular, GNSS, and Ethernet services
IR809G-LTE-GA-K9	Multimode LTE/3G/2G cellular, GNSS, and Ethernet services
IR829GW-LTE-GA-EK9	Multimode LTE/3G/2G cellular, Dual band 802.11n WIFI, GNSS, and Ethernet services
IR829-2LTE-EA-EK9	Dual active LTE/3G cellular, Dual band 802.11n WIFI, GNSS and Ethernet services

Datasheets

<https://www.cisco.com/c/en/us/products/collateral/routers/800-series-industrial-routers/datasheet-c78-739643.html>

<http://www.cisco.com/c/en/us/products/collateral/routers/809-industrial-router/datasheet-c78-734980.html>

<http://www.cisco.com/c/en/us/products/collateral/routers/829-industrial-router/datasheet-c78-734981.html>

Simplified EU Declaration of Conformity

This declaration is only valid for configurations (combinations of software, firmware and hardware) provided and/or supported by Cisco Systems for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. The use of software or firmware not supported/provided by Cisco Systems may result that the equipment is no longer compliant with the regulatory requirements.

Български [Bulgarian]	Това оборудване отговаря на съществените изисквания и приложими клаузи на Директива 2014/53/ЕС.
Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 2014/53/EU.

Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 2014/53/EU.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 2014/53/EU.
Eesti [Estonian]:	See seade vastab Direktiivi 2014/53/EL olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 2014/53/UE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 2014/53/ΕΕ.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 2014/53/UE.
Hrvatski: [Croatian]	Ova oprema je u skladnosti s bitnim zahtjevima i drugim relevantnim odredbama Direktive 2014/53/EU.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 2014/53/EU.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 2014/53/UE.
Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 2014/53/ES būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 2014/53/ES Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 2014/53/EU.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-htigiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 2014/53/UE.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 2014/53/EU irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 2014/53/EU.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 2014/53/UE.

Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 2014/53/UE.
Română [Romanian]:	Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Directivei 2014/53/UE.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 2014/53/EU.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 2014/53/EÚ.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 2014/53/EU olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 2014/53/EU.
Türk [Turkish]:	Bu cihaz 2014/53/EU Direktifi'nin temel gereklerine ve ilgili diğer hükümlerine uygundur.

National Restrictions or Requirements for Authorisation of Use

Wi-Fi products

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

I Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this wireless LAN product is operating within the boundaries of the owner's property, its use requires a "general authorization". Please check <http://www.comunicazioni.it/it/> for more details.

Questo prodotto è conforme alle specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN richiede una "Autorizzazione Generale". Consultare <http://www.comunicazioni.it/it/> per maggiori dettagli.

Latvia

The outdoor usage of the 2.4 GHz band requires an authorization from the Electronic Communications Office. Please check <http://www.esd.lv> for more details.

2,4 GHz frekvenču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: <http://www.esd.lv>.

Antennas

The IR800 Series Industrial Integrated router products are equipped with antenna connectors to allow the use of dedicated (external) antennas available from Cisco.

Tables 2, 3, and 4 list the antennas that can be used by all the IR800 series product versions. All antennas were assessed together with the equipment against the essential requirements of the RE-Directive.

It is the responsibility of the end user to select a power level that, together with the antenna, results in an EIRP (radiated power) level that is below the applicable limit.

Table 2. Wifi dedicated external antennas available for this product (IR829 only)

Antenna P/N	Antenna Gain (dBi)		Antenna gain parameter to be configured in the CLI (multiples of 0,5 dBi)		Antenna power parameter to be configured in the CLI -E domain (Europe) (dBm)		Antenna Description
	2.4 GHz	5 GHz	2.4 GHz	5 GHz	2.4 GHz	5 GHz	
AIR-ANT2524DB-R	2	4	4	8	+14	+20	
AIR-ANT2547V-N-HZ	4	7	8	14	+10	+19	Dual Band Omni , Hazloc
AIR-ANT2547V-N	4	7	8	14	+10	+19	Dual Band Omni , White
AIR-ANT2547VG-N	4	7	8	14	+10	+19	Dual Band Omni , Gray
AIR-ANT5160V-R	N/A	6	N/A	12	N/A	+19	5 GHz 6dBi Omni
AIR-ANT2544V4M-R	4	4	8	8	+10	+20	Dual Band Wall Mount 4-port Omni
AIR-ANT2465P-R	6.5	N/A	13	N/A	+10	N/A	2.4 GHz 2-port 6.5dBi patch
AIR-ANT2413P2M-N	13	N/A	26	N/A	+4	N/A	2.4 GHz 2-port 13dBi patch
AIR-ANT5114P2M-N	N/A	14	N/A	28	N/A	+12	5 GHz 2-port 13dBi patch
AIR-ANT2566P4W-R	6	6	12	12	+10	+19	6dBi dual band 4 port patch
AIR-ANT2513P4M-N	13	13	26	26	+4	+12	13dBi 4 port dual band dual pol patch
ANT-5-4G2WL2G1-O	6	7	12	14	+10	+19	5-in-1 five element vehicle antenna
ANT-2-WLAN-D-O	5	7	10	14	+10	+19	2-port dual band vehicular WLAN antenna
AIR-ANT2506	5	N/A	10	N/A	+10	N/A	2.4 GHz 5dBi omni
AIR-ANT2420V-N	2	N/A	4	N/A	+14	N/A	2.4 GHz 2dBi omni
AIR-ANT2450V-N	5	N/A	10	N/A	+10	N/A	2.4 GHz 5dBi omni
AIR-ANT2450V-N-HZ	5	N/A	10	N/A	+10	N/A	2.4 GHz 5dBi omni, hazloc
AIR-ANT5140V-N	N/A	4	N/A	8	N/A	+20	5 GHz, 4dBi omni
AIR-ANT2566D4M-R	6	6	12	12	+10	+19	Dual Band dual-pol 6dBi array

Note 1: The antenna gain mentioned does not include the cable loss. For all combinations, the total of power level, antenna gain and cable loss is below the maximum power levels given in Table 5 below

Table 3. Cellular dedicated external antennas available for these products (IR807, IR809, and IR829)

	Frequency 698-960 MHz	Frequency 1710-2170 MHz	Frequency 2200-2700 MHz	
Cellular Bands	LTE, UMTS 698-960 MHz group of cellular licensed bands FDD bands: 5, 6, 8, 12, 13, 17, 18, 19, 20, 26, 28, 29	LTE, UMTS 1710-2170 MHz group of cellular licensed bands FDD bands: 1, 2, 3, 4, 9, 25 TDD bands: 39	LTE, UMTS 2200-2700 MHz group of cellular licensed bands FDD bands: 7, 30 TDD bands: 38, 40, 41	
Transmit power	LTE, UMTS, Class 3 +25dBm max GSM, GPRS +33dBm max (Band 5 - NAR only) (Band 8 - EMEA only)	LTE, UMTS, Class 3 +25dBm max GSM, GPRS +33dBm max (Band 2 - NAR only) (Band 3 - EMEA only)	LTE, UMTS, Class 3 +25dBm max	E-UTRA 3GPP ref: 3GPP TS36.101 Table 6.2.2-1: UE Power Class
Antenna P/N	Antenna Gain (dBi) for 698-960 MHz	Antenna Gain (dBi) for 1710-2170 MHz	Antenna Gain (dBi) for 2200-2700 MHz	Antenna Description
LTE-ANTM-D	2.1	2.6	3.7	LTE C/A Swivel Mount Indoor Dipole
4G-LTE-ANTM-D	2.2	2.2	2.2	LTE Swivel Mount Indoor Dipole
ANT-4G-DP-IN-TNC	0.5	2.2	2.2	LTE Swivel Mount Indoor Dipole
ANT-4G-OMNI-OUT-N	1.5	3.5	3.5	LTE Mast Mount Outdoor Dipole
ANT-4G-PNL-OUT-N	10	8.5	9.5	LTE outdoor panel directional antenna
ANT-5-4G2WL2G1-O	2.9	5	6	LTE 5-in-1 vehicular multielement antenna
ANT-3-4G2G1-O	2.9	4.6	5.5	LTE 3-in-1 vehicular multielement antenna
ANT-2-4G2-O	3.8	4.6	5.5	LTE 2-in-1 vehicular multielement antenna

Table 4. GPS dedicated external antennas available for these products (IR807, IR809, IR829)

Antenna P/N	Operating frequency	Max peak gain (at boresight)	Antenna Gain (dBi)	Antenna Description
GPS-ACT-ANTM-SMA	1574.42-1576.42 MHz	4dBic	3.7	Active GPS /4G indoor/outdoor antenna, SMA

Operating Frequency & Maximum Output Power

Table 5. WiFi maximum power output.

Cisco PID	Frequency Bands	Maximum Power level (EIRP)
IR829 Series	2400 MHz – 2483.5 MHz	14dBm
	5470 Mhz – 5725 Mhz	20dBm

Wireless LAN equipment operating in the 5 GHz frequency band and installed outdoors need to have the 5150 MHz to 5350 MHz band disabled. Check the User Manual for correctly configuring the equipment so that outdoor operation only takes place in 5470 MHz to 5725 MHz.

Intended use of the equipment

This product can be operated indoors or outdoors. When used outdoors, the frequency band 5150 MHz to 5350 MHz shall be disabled.

This product is designed to be used in industrial environments and may comply with specific requirements of rolling stock.

This equipment cannot be used as a medical device in order to perform diagnostic, monitoring and treatment functions etc, as defined in the Medical Directive 93/42EEC. However, the device conforms to the EMC requirements of the Medical Directive 93/42/EEC, and as such it can be used for various other applications in a medical environment.

Minimum Separation Distance

Installing or mounting of this device shall be done as such that a minimum separation distance (distance between a person and the device, or the device's antennas) of 20cm is always ensured.

Related Documentation

You can find customer documentation for the Cisco IR800 Series Industrial Integrated router products at:

<https://www.cisco.com/c/en/us/products/collateral/routers/800-series-industrial-routers/datasheet-c78-739643.html>

<http://www.cisco.com/c/en/us/products/collateral/routers/809-industrial-router/datasheet-c78-734980.html>

<http://www.cisco.com/c/en/us/products/collateral/routers/829-industrial-router/datasheet-c78-734981.html>

Note: If you still have questions regarding the compliance of these products or you cannot find the information you are looking for, please send an email request to Cisco at complianceinfo@cisco.com.

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