EU Directive 2014/53/EU - Compliance Information for the Cisco 5G Standalone (SA) and LTE CAT7 Pluggable Interface Modules (PIMs)

Scope

The information in this document is applicable to the following classes of Pluggable Interface Modules (PIMs): 5G Standalone (SA) PIM (P-5GS6-R16SA-GL, P-5GS6-R16SA-GL=) and LTE CAT7 PIM (P-LTEA7-EAL, P-LTEA7-EAL=). PIMs are modules that are inserted into compatible Cisco routers with PIM slots. The 5G SA and LTE CAT7 PIMs can be used with compatible models of the Cisco 1100 Series Integrated Services Routers and the Cisco Catalyst 8200 and Cisco Catalyst 8300 Series Edge Platforms that support PIM form factor modules. These products are intended to be placed on the market within the European Union, Liechtenstein, Switzerland, Iceland, Norway, Turkey and other countries that have implemented the EU Directive 2014/53/EU.

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 asi 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 sukladnosti 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 essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 2014/53/EU.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet 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 in conformitate cu cerintele esentiale si 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.

Note: The full declarations of conformity for these product can be found:
https://www.cisco.com/web/dofc/EU92979.pdf
https://www.cisco.com/web/dofc/UK92996.pdf
http://www.cisco.com/web/dofc/EU94036.pdf
http://www.cisco.com/web/dofc/UK94037.pdf

National Restrictions or Requirements for Authorisation of Use

This product shall only be used indoors.

Operating Frequency Range and RF Output Power

Cisco 5G SA PIMs (P-5GS6-R16SA-GL, P-5GS6-R16SA-GL=) are capable to operate in any of the frequency bands from Table 1, Table 2, and Table 3 below.

Cisco LTE CAT7 PIMs (P-LTEA7-EAL, P-LTEA7-EAL=) are capable to operate in any of the frequency bands from Table 4 and Table 5 below.

Table 1: Supported 5G Frequencies for 5G SA PIM

5G NR FR1						
Band	Tx Frequency Range (MHz)	Rx Frequency Range (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum Power Level EIRP (dBm)	Maximum Power Level EIRP (mW)
1	1920–1980	2110–2170	24	2.2	26.2	417
2	1850–1910	1930–1990	24	2.2	26.2	417
3	1710–1785	1805–1880	24	2.2	26.2	417
5	824–849	869–894	24	3.2	27.2	525
7	2500–2570	2620–2690	24	3.1	27.1	513
8	880–915	925–960	24	3.2	27.2	525
12	699–716	729–746	24	3.2	27.2	525
13	777–787	746–756	24	3.2	27.2	525
14	788–798	758–768	24	3.2	27.2	525
18	815–830	860–875	24	3.2	27.2	525
20	832–862	791–821	24	3.2	27.2	525
25	1850–1915	1930–1995	24	2.2	26.2	417
26	814–849	859–894	24	3.2	27.2	525
28	703–748	758–803	24	3.2	27.2	525
29	n/a	717–728	N/A	N/A	N/A	N/A
30	2305–2315	2350–2360	24	3.1	27.1	513
38	2570–2620		24	3.9	24	617
40	2300–2400		24	3.1	24	513
41	2496–2690		26	3.9	26	977
48	3550–3700		24	3.1	24	513
66	1710–1780	2110–2200	24	2.2	26.2	417
70	1695–1710	1995–2020	24	2.2	26.2	417
71	663–698	617–652	24	3.2	27.2	525
75	n/a	1432–1517	N/A	N/A	N/A	N/A
76	n/a	1427–1432	N/A	N/A	N/A	N/A
77	3300–4200		26	3.1	26	813
78	3300–3800		26	3.1	26	813
79	4400–5000		26	3.7	26	933

Table 2: Supported 4G Frequencies for 5G SA PIM

4G LTE						
Band	**Tx Frequency Range (MHz)**	**Rx Frequency Range (MHz)**	**Conducted Output Power (dBm)**	**Antenna Gain (dBi)**	**Maximum Power Level EIRP (dBm)**	**Maximum Power Level EIRP (mW)**
1	1920–1980	2110–2170	23	2.2	25.2	331
2	1850–1910	1930–1990	23.5	2.2	25.7	372
3	1710–1785	1805–1880	23	2.2	25.2	331
4	1710–1755	2110–2155	23.5	2.2	25.7	372
5	824–849	869–894	23.5	3.2	26.7	468
7	2500–2570	2620–2690	23	3.1	26.1	407
8	880–915	925–960	23	3.2	26.2	417
12	699–716	729–746	23	3.2	26.2	417
13	777–787	746–756	23.5	3.2	26.7	468
14	788–798	758–768	23	3.2	26.2	417
17	704–716	734–746	23	3.2	26.2	417
18	815–830	860–875	23	3.2	26.2	417
19	830–845	875–890	23	3.2	26.2	417
20	832–862	791–821	23	3.2	26.2	417
25	1850–1915	1930–1995	23	2.2	25.2	331
26	814–849	859–894	23	3.2	26.2	417
28	703–748	758–803	23	3.2	26.2	417
29	n/a	717–728	N/A	N/A	N/A	N/A
30	n/a	2350–2360	N/A	N/A	N/A	N/A
32	n/a	1452–1496	N/A	N/A	N/A	N/A
34	2010–2025		23	3.1	26.1	407
38	2570–2620		23	3.9	26.9	490
39	1880–1920		23	2.2	25.2	331
40	2300–2400		23	3.1	26.1	407
41	2496–2690		25	3.9	28.9	776
42	3400–3600		25	3.1	28.1	646
43	3600–3800		25	3.1	28.1	646
46	N/A	5150–5925	N/A	N/A	N/A	N/A
48	3550–3700		23	3.1	26.1	407
66	1710–1780	2110–2200	23.5	2.2	25.7	372
71	663–698	617–652	23	3.2	26.2	417

Table 3: Supported 3G Frequencies for 5G SA PIM

3G UMTS Band	Tx Frequency Range (MHz)	Rx Frequency Range (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum Power Level EIRP (dBm)	Maximum Power Level EIRP (mW)
1	1920–1980	2110–2170	23.5	2.2	25.7	372
2	1850–1910	1930–1990	23.5	2.2	25.7	372
4	1710–1755	2110–2155	23.5	2.2	25.7	372
5	824–849	869–894	23.5	3.2	26.7	468
8	880–915	925–960	23.5	3.2	26.7	468
19	830–845	875–890	23.5	3.2	26.7	468

Table 4: Supported 4G Frequencies for LTE CAT7 PIM

4G LTE Band	Tx Frequency Range (MHz)	Rx Frequency Range (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum Power Level EIRP (dBm)	Maximum Power Level EIRP (mW)
1	1920–1980	2110–2170	22.5	2.2	24.7	295
3	1710–1785	1805–1880	22.5	2.2	24.7	295
7	2500–2570	2620–2690	22	3.1	25.1	324
8	880–915	925–960	23	3.2	26.2	417
20	832–862	791–821	23	3.2	26.2	417
28	703–748	758–803	23	3.2	26.2	417
32	n/a	1452–1496	N/A	N/A	N/A	N/A
38	2570–2620		22	3.9	25.9	389
40	2300–2400		22	3.1	25.1	324
41	2496–2690		22	3.9	25.9	389
42	3400–3600		22	3.1	25.1	324
43	3600–3800		22	3.1	25.1	324

Table 5: Supported 3G Frequencies for LTE CAT7 PIM

3G UMTS Band	Tx Frequency Range (MHz)	Rx Frequency Range (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Maximum Power Level EIRP (dBm)	Maximum Power Level EIRP (mW)
1	1920–1980	2110–2170	23	2.2	25.2	331
5	824–849	869–894	22	3.2	25.2	331
8	880–915	925–960	23	3.2	26.2	417

Antennas

Four multiband swivel-mount dipole antennas (5G-ANTM2-SMA-D) are selected as default options at the time of customer order for the Cisco 5G SA PIM (P-5GS6-R16SA-GL, P-5GS6-R16SA-GL=). Two multiband swivel-mount dipole antennas (5G-ANTM2-SMA-D) are selected as default options at the time of customer order for the Cisco LTE CAT7 PIM (P-LTEA7-EAL, P-LTEA7-EAL=).

Intended use of the equipment

The Cisco 5G SA and LTE CAT7 PIMs when used with compatible models of the Cisco 1100 Series Integrated Services Routers and the Cisco Catalyst 8200/8300 Series Edge Platforms are well suited for deployment as Customer Premises Equipment (CPE) in enterprise branch offices or in service provider managed environments. This product is solely to be used indoors.

Minimum Separation Distance

Installing or mounting the device shall be done such that a minimum separation distance (distance between a person and the device, or the device’s antennas) is always ensured to be minimum 20cms.