

Application Note

Regulatory Information



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Info

English (EN): This document contains regulatory information for Advantech industrial routers with restricted radio frequency bands (5 GHz and 6 GHz Wi-Fi). Information is provided for each product model in multiple languages as required by EU regulations.

Français (FR): Ce document contient des informations réglementaires pour les routeurs industriels Advantech utilisant des bandes de fréquences radio soumises à des restrictions (Wi-Fi 5 GHz et 6 GHz). Les informations sont fournies pour chaque modèle de produit dans plusieurs langues conformément aux exigences de l'UE.

Deutsch (DE): Dieses Dokument enthält regulatorische Informationen für Advantech Industrie-Router mit eingeschränkten Funkfrequenzbändern (5-GHz- und 6-GHz-Wi-Fi). Die Informationen werden für jedes Produktmodell in mehreren Sprachen gemäß den EU-Vorschriften bereitgestellt.

Español (ES): Este documento contiene información reglamentaria para los routers industriales Advantech con bandas de frecuencia de radio restringidas (Wi-Fi de 5 GHz y 6 GHz). La información se proporciona para cada modelo de producto en varios idiomas según lo exigen las normativas de la UE.

Italiano (IT): Questo documento contiene informazioni normative per i router industriali Advantech con bande di frequenza radio soggette a restrizioni (Wi-Fi a 5 GHz e 6 GHz). Le informazioni sono fornite per ciascun modello di prodotto in più lingue, come richiesto dalla normativa UE.

Čeština (CZ): Tento dokument obsahuje regulační informace pro průmyslové routery Advantech s omezenými rádiovými pásmy (5 GHz a 6 GHz Wi-Fi). Informace jsou uvedeny pro každý model ve více jazycích v souladu s předpisy EU.

Polski (PL): Niniejszy dokument zawiera informacje regulacyjne dotyczące przemysłowych routerów Advantech z ograniczonymi pasmami częstotliwości radiowych (Wi-Fi 5 GHz i 6 GHz). Informacje są podawane dla każdego modelu produktu w wielu językach, zgodnie z wymaganiami przepisów UE.

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1. [EN] Regulatory Information – Radio Parameters

1.1 Introduction

This document provides information about the operating frequencies and maximum transmit power (EIRP) for Advantech industrial routers. The devices are designed to comply with the essential requirements of the **Radio Equipment Directive (RED) 2014/53/EU**.

The use of 5 GHz and 6 GHz Wi-Fi interfaces is subject to specific regulatory restrictions as defined by the following European Commission decisions:

- **Commission Implementing Decision (EU) 2022/179** (and its amendments) regarding the harmonized use of radio spectrum in the **5 GHz** frequency band (5150–5725 MHz).
- **Commission Implementing Decision (EU) 2021/1067** on the harmonized use of the **5945–6425 MHz** frequency band (6 GHz) for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs).

In accordance with these regulations:

- The **5150–5350 MHz** band is restricted to **indoor use only**.
- The **5945–6425 MHz** band is restricted to **Low Power Indoor (LPI)** operation only.

Info

To ensure compliance with local regulations, the maximum transmit power is automatically adjusted based on the *Country* setting in the router's configuration; for more details, please refer to the *Configuration Manual*.

1.2 Platform v2i

1.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.2 ICR-2413

Technology	Frequency Band / Max. Power / Notes
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Power Class 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Power Class 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Power Class 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Power Class 5)

1.2.3 ICR-2432

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.4 ICR-2041, ICR-2441

Technology	Frequency Band / Max. Power / Notes
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.5 ICR-2437

Technology	Frequency Band / Max. Power / Notes
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

1.2.6 ICR-2438

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.7 ICR-2452 RedCap

Technology	Frequency Band / Max. Power / Notes
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Standard: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Standard: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.8 ICR-2501, ICR-2701

Technology	Frequency Band / Max. Power / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.9 ICR-2734 Libratum, ICR-2834

Technology	Frequency Band / Max. Power / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.2.10 ICR-2545

Technology	Frequency Band / Max. Power / Notes
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS Required)

1.3 Platform v3 → SmartFlex Routers

1.3.1 SR-300

Technology	Frequency Band / Max. Power / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)

1.3.2 SR-304

Technology	Frequency Band / Max. Power / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)

1.3.3 SR-308

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)

1.3.4 SR-309

Technology	Frequency Band / Max. Power / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)

1.3.5 SR-310

Technology	Frequency Band / Max. Power / Notes
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)

1.4 Platform v3 → ICR-3200 Routers

1.4.1 ICR-3201

Technology	Frequency Band / Max. Power / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS Required)

1.4.2 ICR-3211

Technology	Frequency Band / Max. Power / Notes
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

1.4.3 ICR-3231

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS Required)

1.4.4 ICR-3232

Technology	Frequency Band / Max. Power / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS Required)

1.4.5 ICR-3241

Technology	Frequency Band / Max. Power / Notes
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS Required)

1.5 Platform v4

1.5.1 ICR-4401

Technology	Frequency Band / Max. Power / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 chains)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (version W/W1) (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (version W/W1) (DFS Required)

1.5.2 ICR-4434

Technology	Frequency Band / Max. Power / Notes
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 chains)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (version W/W1) (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (version W/W1) (DFS Required)

1.5.3 ICR-4461

Technology	Frequency Band / Max. Power / Notes
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (DFS Required)

1.6 Platform v4i

1.6.1 ICR-4133, ICR-4233

Technology	Frequency Band / Max. Power / Notes
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Indoor Only)

1.6.2 ICR-4161, ICR-4261

Technology	Frequency Band / Max. Power / Notes
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Indoor Only)

1.6.3 ICR-4171, ICR-4271

Technology	Frequency Band / Max. Power / Notes
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (High Power / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Standard Power)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (High Power / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Indoor Only)

1.6.4 ICR-4172, ICR-4272

Technology	Frequency Band / Max. Power / Notes
5G NR (Standard Power)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (High Power / PC1.5)	n41, n77, n78, n79: 31 dBm (Power Class 1.5 provides a nominal 29 dBm, resulting in a maximum of 31 dBm including tolerance.)
LTE (Standard Power)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Indoor Use Only)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS Required)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Indoor Only)

2. [FR] Informations réglementaires – Paramètres radio

2.1 Introduction

Ce document fournit des informations sur les fréquences de fonctionnement et la puissance de transmission maximale (PIRE) des routeurs industriels Advantech. Les appareils sont conçus pour se conformer aux exigences essentielles de la **Directive sur les équipements radioélectriques (RED) 2014/53/UE**.

L'utilisation des interfaces Wi-Fi 5 GHz et 6 GHz est soumise à des restrictions réglementaires spécifiques définies par les décisions suivantes de la Commission européenne :

- **Décision d'exécution (UE) 2022/179 de la Commission** (et ses amendements) concernant l'utilisation harmonisée du spectre radioélectrique dans la bande de fréquences **5 GHz** (5150–5725 MHz).
- **Décision d'exécution (UE) 2021/1067 de la Commission** relative à l'utilisation harmonisée de la bande de fréquences **5945–6425 MHz** (6 GHz) pour la mise en œuvre de systèmes d'accès sans fil, y compris les réseaux locaux radioélectriques (WAS/RLAN).

Conformément à ces réglementations :

- La bande **5150–5350 MHz** est strictement limitée à une **utilisation en intérieur uniquement**.
- La bande **5945–6425 MHz** est limitée exclusivement à un fonctionnement en **faible puissance en intérieur (LPI)**.

Info

Pour garantir la conformité aux réglementations locales, la puissance de transmission maximale est automatiquement ajustée en fonction du paramètre *Country* (Pays) dans la configuration du routeur ; pour plus de détails, veuillez vous référer au *Configuration Manual* (Manuel de configuration).

2.2 Platform v2i

2.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41 : 25 dBm
WCDMA (HSPA+)	B1, B8 : 25 dBm
GSM / EDGE	900 MHz (B8) : 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3) : 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.2 ICR-2413

Technologie	Bande de fréq. / Puissance max. / Notes
LTE (Cat M1)	B31, B72, B73 : 23/26 dBm (Classe de puissance 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85 : 21 dBm (Classe de puissance 5)
LTE (Cat NB2)	B31, B72, B73 : 23/26 dBm (Classe de puissance 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85 : 21 dBm (Classe de puissance 5)

2.2.3 ICR-2432

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40 : 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8 : 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8) : 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2) : 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.4 ICR-2041, ICR-2441

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B2, B4, B5, B12, B13, B14, B66, B71 : 25 dBm
WCDMA (HSPA+)	B2, B4, B5 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.5 ICR-2437

Technologie	Bande de fréq. / Puissance max. / Notes
LTE (Cat.4)	B3, B7, B20, B31, B72 : 25 dBm

2.2.6 ICR-2438

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B3, B8, B18, B19, B26, B41 : 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.7 ICR-2452 RedCap

Technologie	Bande de fréq. / Puissance max. / Notes
5G NR (Sub-6 GHz)	HPUE : n38, n41, n77, n78 : 28 dBm Standard : n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79 : 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71 : 25 dBm
LTE-TDD	HPUE : B38, B40, B41, B42, B43 : 28 dBm Standard : B34, B39, B48 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.8 ICR-2501, ICR-2701

Technologie	Bande de fréq. / Puissance max. / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.9 ICR-2734 Libratum, ICR-2834

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20, B28 : 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8 : 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz : 35 dBm 1800 / 1900 MHz : 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.2.10 ICR-2545

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28 : 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19 : 25 dBm
GSM / EDGE	850 / 900 MHz : 35 dBm 1800 / 1900 MHz : 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 15 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 15 dBm (DFS requis)

2.3 Platform v3 → SmartFlex Routers

2.3.1 SR-300

Technologie	Bande de fréq. / Puissance max. / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz : 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)

2.3.2 SR-304

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20 : 25 dBm
LTE-TDD	B38, B40, B41 : 25 dBm
WCDMA (HSPA+)	B1, B5, B8 : 25 dBm
GSM / EDGE	900 MHz : 35 dBm 1800 MHz : 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)

2.3.3 SR-308

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40 : 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8 : 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8) : 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2) : 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz : 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)

2.3.4 SR-309

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD	B1, B3, B5, B7, B8, B20 : 25 dBm
LTE-TDD	B38, B40, B41 : 25 dBm
WCDMA (HSPA+)	B1, B5, B8 : 25 dBm
GSM / EDGE	900 MHz : 35 dBm 1800 MHz : 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)

2.3.5 SR-310

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28 : 25 dBm
LTE-TDD	B38, B39, B40, B41 : 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19 : 25 dBm
GSM / EDGE	850 / 900 MHz : 35 dBm 1800 / 1900 MHz : 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)

2.4 Platform v3 → ICR-3200 Routers

2.4.1 ICR-3201

Technologie	Bande de fréq. / Puissance max. / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 23 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23 dBm (DFS requis)

2.4.2 ICR-3211

Technologie	Bande de fréq. / Puissance max. / Notes
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 : 25 dBm
LTE-TDD (Cat M1 Only)	B39 : 25 dBm
EGPRS (2G)	850 / 900 MHz : 35 dBm 1800 / 1900 MHz : 32 dBm

2.4.3 ICR-3231

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41 : 25 dBm
WCDMA (HSPA+)	B1, B8 : 25 dBm
GSM / EDGE	900 MHz (B8) : 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3) : 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 23 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23 dBm (DFS requis)

2.4.4 ICR-3232

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40 : 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8 : 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8) : 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2) : 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 23 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23 dBm (DFS requis)

2.4.5 ICR-3241

Technologie	Bande de fréq. / Puissance max. / Notes
LTE	B2, B4, B5, B12, B13, B14, B66, B71 : 25 dBm
WCDMA (HSPA+)	B2, B4, B5 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 23 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23 dBm (DFS requis)

2.5 Platform v4

2.5.1 ICR-4401

Technologie	Bande de fréq. / Puissance max. / Notes
Wi-Fi 2.4 GHz	2412–2472 MHz : 26 dBm (3 chaînes)
Wi-Fi 5 GHz	5150–5350 MHz : 23/25 dBm (version W/W1) (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23/25 dBm (version W/W1) (DFS requis)

2.5.2 ICR-4434

Technologie	Bande de fréq. / Puissance max. / Notes
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41 : 25 dBm
WCDMA (3G)	B1, B3, B5, B8 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 26 dBm (3 chaînes)
Wi-Fi 5 GHz	5150–5350 MHz : 23/25 dBm (version W/W1) (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 23/25 dBm (version W/W1) (DFS requis)

2.5.3 ICR-4461

Technologie	Bande de fréq. / Puissance max. / Notes
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28 : 25 dBm
5G NR (Haute puissance / HPUE)	n38, n40, n41, n77, n78 : 28 dBm
LTE	B1, B3, B7, B8, B20, B28 : 25 dBm
LTE (Haute puissance / HPUE)	B38, B41, B42, B43 : 28 dBm
WCDMA (3G)	B1, B8 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 16 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 16 dBm (DFS requis)

2.6 Platform v4i

2.6.1 ICR-4133, ICR-4233

Technologie	Bande de fréq. / Puissance max. / Notes
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41 : 25 dBm
WCDMA (3G)	B1, B3, B5, B8 : 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)
Wi-Fi 6 GHz	5945–6425 MHz : 16 dBm (LPI - Intérieur uniquement)

2.6.2 ICR-4161, ICR-4261

Technologie	Bande de fréq. / Puissance max. / Notes
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28 : 25 dBm
5G NR (Haute puissance / HPUE)	n38, n40, n41, n77, n78 : 28 dBm
LTE	B1, B3, B7, B8, B20, B28 : 25 dBm
LTE (Haute puissance / HPUE)	B38, B41, B42, B43 : 28 dBm
WCDMA (3G)	B1, B8 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)
Wi-Fi 6 GHz	5945–6425 MHz : 16 dBm (LPI - Intérieur uniquement)

2.6.3 ICR-4171, ICR-4271

Technologie	Bande de fréq. / Puissance max. / Notes
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66 : 25 dBm
5G NR (Haute puissance / HPUE)	n41, n77, n78, n79 : 28 dBm
LTE (Puissance standard)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43 : 25 dBm
LTE (Haute puissance / HPUE)	B41 : 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)
Wi-Fi 6 GHz	5945–6425 MHz : 16 dBm (LPI - Intérieur uniquement)

2.6.4 ICR-4172, ICR-4272

Technologie	Bande de fréq. / Puissance max. / Notes
5G NR (Puissance standard)	n1, n2, n3, n5, n7, n8, n20, n28 : 25 dBm
5G NR (Haute puissance / PC1.5)	n41, n77, n78, n79 : 31 dBm (La classe de puissance 1.5 fournit une puissance nominale de 29 dBm, ce qui donne un maximum de 31 dBm incluant la tolérance.)
LTE (Puissance standard)	B1, B3, B7, B8, B20, B28 : 25 dBm
LTE (Haute puissance / PC2)	B41 : 28 dBm
WCDMA (3G)	B1, B5, B8 : 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz : 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz : 18 dBm (Utilisation en intérieur uniquement)
Wi-Fi 5 GHz	5470–5725 MHz : 18 dBm (DFS requis)
Wi-Fi 6 GHz	5945–6425 MHz : 16 dBm (LPI - Intérieur uniquement)

3. [DE] Regulatorische Informationen – Funkparameter

3.1 Einleitung

Dieses Dokument enthält Informationen zu den Betriebsfrequenzen und der maximalen Sendeleistung (EIRP) für Advantech Industrie-Router. Die Geräte sind so konzipiert, dass sie die grundlegenden Anforderungen der **Funkanlagenrichtlinie (RED) 2014/53/EU** erfüllen.

Die Nutzung von 5-GHz- und 6-GHz-Wi-Fi-Schnittstellen unterliegt spezifischen regulatorischen Beschränkungen, wie sie in den folgenden Beschlüssen der Europäischen Kommission festgelegt sind:

- **Durchführungsbeschluss (EU) 2022/179 der Kommission** (und dessen Änderungen) über die harmonisierte Nutzung von Funkfrequenzen im **5-GHz-Frequenzband** (5150–5725 MHz).
- **Durchführungsbeschluss (EU) 2021/1067 der Kommission** über die harmonisierte Nutzung des Frequenzbands **5945–6425 MHz** (6 GHz) für die Einführung von Systemen für den drahtlosen Netzzugang einschließlich lokaler Funknetze (WAS/RLANs).

In Übereinstimmung mit diesen Vorschriften:

- Das Band **5150–5350 MHz** ist auf die **Verwendung in Innenräumen** beschränkt.
- Das Band **5945–6425 MHz** ist ausschließlich auf den **Low Power Indoor (LPI)** Betrieb beschränkt.

Info

Um die Einhaltung lokaler Vorschriften zu gewährleisten, wird die maximale Sendeleistung automatisch basierend auf der Einstellung *Country* in der Konfiguration des Routers angepasst; weitere Einzelheiten entnehmen Sie bitte dem *Configuration Manual*.

3.2 Platform v2i

3.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.2 ICR-2413

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Leistungsklasse 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Leistungsklasse 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Leistungsklasse 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Leistungsklasse 5)

3.2.3 ICR-2432

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.4 ICR-2041, ICR-2441

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.5 ICR-2437

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

3.2.6 ICR-2438

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.7 ICR-2452 RedCap

Technologie	Frequenzband / Max. Leistung / Hinw.
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Standard: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Standard: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.8 ICR-2501, ICR-2701

Technologie	Frequenzband / Max. Leistung / Hinw.
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.9 ICR-2734 Libratum, ICR-2834

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.2.10 ICR-2545

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS erforderlich)

3.3 Platform v3 → SmartFlex Routers

3.3.1 SR-300

Technologie	Frequenzband / Max. Leistung / Hinw.
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)

3.3.2 SR-304

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)

3.3.3 SR-308

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)

3.3.4 SR-309

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)

3.3.5 SR-310

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)

3.4 Platform v3 → ICR-3200 Routers

3.4.1 ICR-3201

Technologie	Frequenzband / Max. Leistung / Hinw.
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS erforderlich)

3.4.2 ICR-3211

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

3.4.3 ICR-3231

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS erforderlich)

3.4.4 ICR-3232

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS erforderlich)

3.4.5 ICR-3241

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS erforderlich)

3.5 Platform v4

3.5.1 ICR-4401

Technologie	Frequenzband / Max. Leistung / Hinw.
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 Kanäle)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (Version W/W1) (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (Version W/W1) (DFS erforderlich)

3.5.2 ICR-4434

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 Kanäle)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (Version W/W1) (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (Version W/W1) (DFS erforderlich)

3.5.3 ICR-4461

Technologie	Frequenzband / Max. Leistung / Hinw.
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (DFS erforderlich)

3.6 Platform v4i

3.6.1 ICR-4133, ICR-4233

Technologie	Frequenzband / Max. Leistung / Hinw.
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Nur Innenbereich)

3.6.2 ICR-4161, ICR-4261

Technologie	Frequenzband / Max. Leistung / Hinw.
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Nur Innenbereich)

3.6.3 ICR-4171, ICR-4271

Technologie	Frequenzband / Max. Leistung / Hinw.
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (High Power / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Standard Power)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (High Power / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Nur Innenbereich)

3.6.4 ICR-4172, ICR-4272

Technologie	Frequenzband / Max. Leistung / Hinw.
5G NR (Standard Power)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (High Power / PC1.5)	n41, n77, n78, n79: 31 dBm (Leistungsklasse 1.5 liefert nominell 29 dBm, was inklusive Toleranz maximal 31 dBm ergibt.)
LTE (Standard Power)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Nur Innenbereich)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS erforderlich)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Nur Innenbereich)

4. [ES] Información reglamentaria – Parámetros de radio

4.1 Introducción

Este documento proporciona información sobre las frecuencias de funcionamiento y la potencia de transmisión máxima (PIRE) para los routers industriales de Advantech. Los dispositivos están diseñados para cumplir con los requisitos esenciales de la **Directiva sobre Equipos Radioeléctricos (RED) 2014/53/UE**.

El uso de las interfaces Wi-Fi de 5 GHz y 6 GHz está sujeto a restricciones reglamentarias específicas definidas por las siguientes decisiones de la Comisión Europea:

- **Decisión de Ejecución (UE) 2022/179 de la Comisión** (y sus enmiendas) relativa a la utilización armonizada del espectro radioeléctrico en la banda de frecuencias de **5 GHz** (5150–5725 MHz).
- **Decisión de Ejecución (UE) 2021/1067 de la Comisión** relativa a la utilización armonizada de la banda de frecuencias de **5945–6425 MHz** (6 GHz) para la implementación de sistemas de acceso inalámbrico, incluidas las redes radioeléctricas de área local (WAS/RLAN).

De acuerdo con estas regulaciones:

- La banda de **5150–5350 MHz** está restringida exclusivamente al **uso en interiores**.
- La banda de **5945–6425 MHz** está restringida únicamente al funcionamiento en **interiores de baja potencia (LPI)**.

Info

Para garantizar el cumplimiento de las normativas locales, la potencia de transmisión máxima se ajusta automáticamente según la configuración de *Country* (País) en la interfaz del router; para más detalles, consulte el *Configuration Manual* (Manual de configuración).

4.2 Platform v2i

4.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.2 ICR-2413

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Clase de potencia 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Clase de potencia 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Clase de potencia 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Clase de potencia 5)

4.2.3 ICR-2432

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.4 ICR-2041, ICR-2441

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.5 ICR-2437

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

4.2.6 ICR-2438

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.7 ICR-2452 RedCap

Tecnología	Banda de freq. / Potencia máx. / Notas
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Estándar: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Estándar: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.8 ICR-2501, ICR-2701

Tecnología	Banda de freq. / Potencia máx. / Notas
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.9 ICR-2734 Libratum, ICR-2834

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.2.10 ICR-2545

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS requerido)

4.3 Platform v3 → SmartFlex Routers

4.3.1 SR-300

Tecnología	Banda de freq. / Potencia máx. / Notas
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)

4.3.2 SR-304

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)

4.3.3 SR-308

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)

4.3.4 SR-309

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)

4.3.5 SR-310

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)

4.4 Platform v3 → ICR-3200 Routers

4.4.1 ICR-3201

Tecnología	Banda de freq. / Potencia máx. / Notas
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS requerido)

4.4.2 ICR-3211

Tecnología	Banda de freq. / Potencia máx. / Notas
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

4.4.3 ICR-3231

Tecnología	Banda de frec. / Potencia máx. / Notas
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS requerido)

4.4.4 ICR-3232

Tecnología	Banda de frec. / Potencia máx. / Notas
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS requerido)

4.4.5 ICR-3241

Tecnología	Banda de frec. / Potencia máx. / Notas
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS requerido)

4.5 Platform v4

4.5.1 ICR-4401

Tecnología	Banda de frec. / Potencia máx. / Notas
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 cadenas)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (versión W/W1) (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (versión W/W1) (DFS requerido)

4.5.2 ICR-4434

Tecnología	Banda de frec. / Potencia máx. / Notas
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 cadenas)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (versión W/W1) (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (versión W/W1) (DFS requerido)

4.5.3 ICR-4461

Tecnología	Banda de frec. / Potencia máx. / Notas
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Alta potencia / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potencia / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (DFS requerido)

4.6 Platform v4i

4.6.1 ICR-4133, ICR-4233

Tecnología	Banda de frec. / Potencia máx. / Notas
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interiores)

4.6.2 ICR-4161, ICR-4261

Tecnología	Banda de freq. / Potencia máx. / Notas
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Alta potencia / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potencia / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interiores)

4.6.3 ICR-4171, ICR-4271

Tecnología	Banda de freq. / Potencia máx. / Notas
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (Alta potencia / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Potencia estándar)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (Alta potencia / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interiores)

4.6.4 ICR-4172, ICR-4272

Tecnología	Banda de freq. / Potencia máx. / Notas
5G NR (Potencia estándar)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (Alta potencia / PC1.5)	n41, n77, n78, n79: 31 dBm (La clase de potencia 1.5 proporciona 29 dBm nominales, lo que resulta en un máximo de 31 dBm incluyendo la tolerancia.)
LTE (Potencia estándar)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potencia / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso en interiores)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS requerido)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interiores)

5. [UT] Informazioni normative – Parametri radio

5.1 Introduzione

Questo documento fornisce informazioni sulle frequenze operative e sulla massima potenza di trasmissione (EIRP) per i router industriali Advantech. I dispositivi sono progettati per essere conformi ai requisiti essenziali della **Direttiva sulle apparecchiature radio (RED) 2014/53/UE**.

L'uso delle interfacce Wi-Fi a 5 GHz e 6 GHz è soggetto a specifiche restrizioni normative definite dalle seguenti decisioni della Commissione Europea:

- **Decisione di esecuzione (UE) 2022/179 della Commissione** (e relativi emendamenti) riguardante l'uso armonizzato dello spettro radio nella banda di frequenza **5 GHz** (5150–5725 MHz).
- **Decisione di esecuzione (UE) 2021/1067 della Commissione** sull'uso armonizzato della banda di frequenza **5945–6425 MHz** (6 GHz) per l'implementazione di sistemi di accesso wireless, incluse le reti locali radio (WAS/RLAN).

In conformità con queste normative:

- La banda **5150–5350 MHz** è limitata al **solo uso interno**.
- La banda **5945–6425 MHz** è limitata esclusivamente al funzionamento **Low Power Indoor (LPI)**.

Info



Per garantire la conformità alle normative locali, la potenza massima di trasmissione viene regolata automaticamente in base all'impostazione *Country* nella configurazione del router; per ulteriori dettagli, consultare il *Configuration Manual*.

5.2 Platform v2i

5.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.2 ICR-2413

Tecnologia	Banda di freq. / Potenza max. / Note
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Classe di potenza 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Classe di potenza 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Classe di potenza 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Classe di potenza 5)

5.2.3 ICR-2432

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.4 ICR-2041, ICR-2441

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.5 ICR-2437

Tecnologia	Banda di freq. / Potenza max. / Note
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

5.2.6 ICR-2438

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.7 ICR-2452 RedCap

Tecnologia	Banda di freq. / Potenza max. / Note
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Standard: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Standard: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.8 ICR-2501, ICR-2701

Tecnologia	Banda di freq. / Potenza max. / Note
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.9 ICR-2734 Libratum, ICR-2834

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.2.10 ICR-2545

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (DFS richiesto)

5.3 Platform v3 → SmartFlex Routers

5.3.1 SR-300

Tecnologia	Banda di freq. / Potenza max. / Note
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)

5.3.2 SR-304

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)

5.3.3 SR-308

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)

5.3.4 SR-309

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)

5.3.5 SR-310

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)

5.4 Platform v3 → ICR-3200 Routers

5.4.1 ICR-3201

Tecnologia	Banda di freq. / Potenza max. / Note
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS richiesto)

5.4.2 ICR-3211

Tecnologia	Banda di freq. / Potenza max. / Note
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

5.4.3 ICR-3231

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS richiesto)

5.4.4 ICR-3232

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS richiesto)

5.4.5 ICR-3241

Tecnologia	Banda di freq. / Potenza max. / Note
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (DFS richiesto)

5.5 Platform v4

5.5.1 ICR-4401

Tecnologia	Banda di freq. / Potenza max. / Note
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 catene)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (versione W/W1) (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (versione W/W1) (DFS richiesto)

5.5.2 ICR-4434

Tecnologia	Banda di freq. / Potenza max. / Note
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 catene)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (versione W/W1) (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (versione W/W1) (DFS richiesto)

5.5.3 ICR-4461

Tecnologia	Banda di freq. / Potenza max. / Note
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Alta potenza / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potenza / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (DFS richiesto)

5.6 Platform v4i

5.6.1 ICR-4133, ICR-4233

Tecnologia	Banda di freq. / Potenza max. / Note
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interno)

5.6.2 ICR-4161, ICR-4261

Tecnologia	Banda di freq. / Potenza max. / Note
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Alta potenza / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potenza / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interno)

5.6.3 ICR-4171, ICR-4271

Tecnologia	Banda di freq. / Potenza max. / Note
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (Alta potenza / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Potenza standard)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (Alta potenza / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interno)

5.6.4 ICR-4172, ICR-4272

Tecnologia	Banda di freq. / Potenza max. / Note
5G NR (Potenza standard)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (Alta potenza / PC1.5)	n41, n77, n78, n79: 31 dBm (La classe di potenza 1.5 fornisce una potenza nominale di 29 dBm, risultando in un massimo di 31 dBm inclusa la tolleranza.)
LTE (Potenza standard)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Alta potenza / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Solo uso interno)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (DFS richiesto)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Solo interno)

6. [CZ] Regulační informace – Rádiové parametry

6.1 Úvod

Tento dokument poskytuje informace o provozních frekvencích a maximálním vysílacím výkonu (EIRP) pro průmyslové routery Advantech. Zařízení jsou navržena tak, aby splňovala základní požadavky **Směrnice o rádiových zařízeních (RED) 2014/53/EU**.

Používání Wi-Fi rozhraní 5 GHz a 6 GHz podléhá specifickým regulačním omezením definovaným následujícími rozhodnutími Evropské komise:

- **Prováděcí rozhodnutí Komise (EU) 2022/179** (a jeho změny) o harmonizovaném využívání rádiového spektra v kmitočtovém pásmu **5 GHz** (5150–5725 MHz).
- **Prováděcí rozhodnutí Komise (EU) 2021/1067** o harmonizovaném využívání rádiového spektra v pásmu **5945–6425 MHz** (6 GHz) pro zavedení bezdrátových přístupových systémů včetně rádiových místních sítí (WAS/RLAN).

V souladu s těmito předpisy:

- Pásmo **5150–5350 MHz** je omezeno **pouze pro vnitřní použití**.
- Pásmo **5945–6425 MHz** je omezeno pouze na provoz **Low Power Indoor (LPI)**.

Info

Pro zajištění souladu s místními předpisy je maximální vysílací výkon automaticky upravován na základě nastavení *Country* (Země) v konfiguraci routeru; podrobnosti naleznete v *Konfiguračním manuálu*.

6.2 Platform v2i

6.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.2 ICR-2413

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Výkonová třída 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Výkonová třída 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Výkonová třída 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Výkonová třída 5)

6.2.3 ICR-2432

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.4 ICR-2041, ICR-2441

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.5 ICR-2437

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

6.2.6 ICR-2438

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.7 ICR-2452 RedCap

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Standard: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Standard: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.8 ICR-2501, ICR-2701

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.9 ICR-2734 Libratum, ICR-2834

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.2.10 ICR-2545

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Vyžadováno DFS)

6.3 Platform v3 → SmartFlex Routers

6.3.1 SR-300

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)

6.3.2 SR-304

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)

6.3.3 SR-308

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)

6.3.4 SR-309

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)

6.3.5 SR-310

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)

6.4 Platform v3 → ICR-3200 Routers

6.4.1 ICR-3201

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Vyžadováno DFS)

6.4.2 ICR-3211

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

6.4.3 ICR-3231

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Vyžadováno DFS)

6.4.4 ICR-3232

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Vyžadováno DFS)

6.4.5 ICR-3241

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Vyžadováno DFS)

6.5 Platform v4

6.5.1 ICR-4401

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 řetězce)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (verze W/W1) (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (verze W/W1) (Vyžadováno DFS)

6.5.2 ICR-4434

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 řetězce)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (verze W/W1) (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (verze W/W1) (Vyžadováno DFS)

6.5.3 ICR-4461

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Vysoký výkon / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Vysoký výkon / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (Vyžadováno DFS)

6.6 Platform v4i

6.6.1 ICR-4133, ICR-4233

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Pouze vnitřní použití)

6.6.2 ICR-4161, ICR-4261

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (Vysoký výkon / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Vysoký výkon / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Pouze vnitřní použití)

6.6.3 ICR-4171, ICR-4271

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (Vysoký výkon / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Standardní výkon)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (Vysoký výkon / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Pouze vnitřní použití)

6.6.4 ICR-4172, ICR-4272

Technologie	Frekvenční pásmo / Max. výkon / Pozn.
5G NR (Standardní výkon)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (Vysoký výkon / PC1.5)	n41, n77, n78, n79: 31 dBm (Výkonová třída 1.5 poskytuje nominálně 29 dBm, což vede k maximu 31 dBm včetně tolerance.)
LTE (Standardní výkon)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (Vysoký výkon / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Pouze pro vnitřní použití)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Vyžadováno DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - Pouze vnitřní použití)

7. [PL] Informacje regulacyjne – Parametry radiowe

7.1 Wstęp

Niniejszy dokument zawiera informacje na temat częstotliwości roboczych oraz maksymalnej mocy transmisji (EIRP) dla routerów przemysłowych Advantech. Urządzenia zostały zaprojektowane zgodnie z zasadniczymi wymaganiami **dyrektywy w sprawie urządzeń radiowych (RED) 2014/53/UE**.

Korzystanie z interfejsów Wi-Fi 5 GHz oraz 6 GHz podlega szczególnym ograniczeniom regulacyjnym określonym w następujących decyzjach Komisji Europejskiej:

- **Decyzja wykonawcza Komisji (UE) 2022/179** (wraz z późniejszymi zmianami) w sprawie zharmonizowanego wykorzystania widma radiowego w paśmie częstotliwości **5 GHz** (5150–5725 MHz).
- **Decyzja wykonawcza Komisji (UE) 2021/1067** w sprawie zharmonizowanego wykorzystania pasma częstotliwości **5945–6425 MHz** (6 GHz) na potrzeby wdrażania systemów bezprzewodowego dostępu, w tym radiowych sieci lokalnych (WAS/RLAN).

Zgodnie z powyższymi przepisami:

- Pasma **5150–5350 MHz** jest ograniczone wyłącznie do **użytku wewnątrz pomieszczeń**.
- Pasma **5945–6425 MHz** jest ograniczone wyłącznie do pracy w trybie **niskiej mocy wewnątrz pomieszczeń (LPI)**.

Info

Aby zapewnić zgodność z lokalnymi przepisami, maksymalna moc transmisji jest automatycznie dostosowywana na podstawie ustawienia *Country* (Kraj) w konfiguracji routera; więcej szczegółów można znaleźć w instrukcji konfiguracji (*Configuration Manual*).

7.2 Platform v2i

7.2.1 ICR-2031, ICR-2431, ICR-2531, ICR-2631

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.2 ICR-2413

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE (Cat M1)	B31, B72, B73: 23/26 dBm (Klasa mocy 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85: 21 dBm (Klasa mocy 5)
LTE (Cat NB2)	B31, B72, B73: 23/26 dBm (Klasa mocy 3/2) B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B66, B85: 21 dBm (Klasa mocy 5)

7.2.3 ICR-2432

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.4 ICR-2041, ICR-2441

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.5 ICR-2437

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE (Cat.4)	B3, B7, B20, B31, B72: 25 dBm

7.2.6 ICR-2438

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B3, B8, B18, B19, B26, B41: 25 dBm
WCDMA (HSPA+)	B1, B6, B8, B19: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.7 ICR-2452 RedCap

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
5G NR (Sub-6 GHz)	HPUE: n38, n41, n77, n78: 28 dBm Standard: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79: 25 dBm
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B66, B71: 25 dBm
LTE-TDD	HPUE: B38, B40, B41, B42, B43: 28 dBm Standard: B34, B39, B48: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.8 ICR-2501, ICR-2701

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.9 ICR-2734 Libratum, ICR-2834

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD	B1, B3, B5, B7, B8, B20, B28: 25 dBm
WCDMA (HSPA+)	B1, B3, B5, B8: 25 dBm
GSM / GPRS / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.2.10 ICR-2545

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 18 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 15 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 15 dBm (Wymagane DFS)

7.3 Platform v3 → SmartFlex Routers

7.3.1 SR-300

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)

7.3.2 SR-304

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)

7.3.3 SR-308

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)

7.3.4 SR-309

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD	B1, B3, B5, B7, B8, B20: 25 dBm
LTE-TDD	B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B5, B8: 25 dBm
GSM / EDGE	900 MHz: 35 dBm 1800 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)

7.3.5 SR-310

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28: 25 dBm
LTE-TDD	B38, B39, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B6, B8, B19: 25 dBm
GSM / EDGE	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 30 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 16.5 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)

7.4 Platform v3 → ICR-3200 Routers

7.4.1 ICR-3201

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Wymagane DFS)

7.4.2 ICR-3211

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE-FDD (Cat M1 / NB1)	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28: 25 dBm
LTE-TDD (Cat M1 Only)	B39: 25 dBm
EGPRS (2G)	850 / 900 MHz: 35 dBm 1800 / 1900 MHz: 32 dBm

7.4.3 ICR-3231

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B3, B7, B8, B20, B28A, B38, B40, B41: 25 dBm
WCDMA (HSPA+)	B1, B8: 25 dBm
GSM / EDGE	900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Wymagane DFS)

7.4.4 ICR-3232

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B1, B2, B3, B4, B5, B7, B8, B28, B40: 25 dBm
WCDMA (HSPA+)	B1, B2, B4, B5, B8: 25 dBm
GSM / EDGE	850 MHz (B5), 900 MHz (B8): 35 dBm (GSM) / 29 dBm (EDGE)
GSM / EDGE	1800 MHz (B3), 1900 MHz (B2): 32 dBm (GSM) / 28 dBm (EDGE)
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Wymagane DFS)

7.4.5 ICR-3241

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE	B2, B4, B5, B12, B13, B14, B66, B71: 25 dBm
WCDMA (HSPA+)	B2, B4, B5: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 23 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23 dBm (Wymagane DFS)

7.5 Platform v4

7.5.1 ICR-4401

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 tory)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (wersja W/W1) (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (wersja W/W1) (Wymagane DFS)

7.5.2 ICR-4434

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE (FDD & TDD)	B1, B3, B5, B7, B8, B20, B28, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 26 dBm (3 tory)
Wi-Fi 5 GHz	5150–5350 MHz: 23/25 dBm (wersja W/W1) (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 23/25 dBm (wersja W/W1) (Wymagane DFS)

7.5.3 ICR-4461

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 16 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 16 dBm (Wymagane DFS)

7.6 Platform v4i

7.6.1 ICR-4133, ICR-4233

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
LTE (4G)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41: 25 dBm
WCDMA (3G)	B1, B3, B5, B8: 25.5 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - tylko wewnątrz)

7.6.2 ICR-4161, ICR-4261

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
5G NR (Sub-6 GHz)	n1, n3, n7, n8, n20, n28: 25 dBm
5G NR (High Power / HPUE)	n38, n40, n41, n77, n78: 28 dBm
LTE	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / HPUE)	B38, B41, B42, B43: 28 dBm
WCDMA (3G)	B1, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - tylko wewnątrz)

7.6.3 ICR-4171, ICR-4271

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
5G NR (Sub-6 GHz)	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n66: 25 dBm
5G NR (High Power / HPUE)	n41, n77, n78, n79: 28 dBm
LTE (Moc standardowa)	B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B42, B43: 25 dBm
LTE (High Power / HPUE)	B41: 28 dBm
WCDMA (3G)	B1, B2, B4, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - tylko wewnątrz)

7.6.4 ICR-4172, ICR-4272

Technologia	Pasmo częstotliwości / Moc maks. / Uwagi
5G NR (Moc standardowa)	n1, n2, n3, n5, n7, n8, n20, n28: 25 dBm
5G NR (High Power / PC1.5)	n41, n77, n78, n79: 31 dBm (Klasa mocy 1.5 zapewnia moc nominalną 29 dBm, co daje maksymalnie 31 dBm po uwzględnieniu tolerancji.)
LTE (Moc standardowa)	B1, B3, B7, B8, B20, B28: 25 dBm
LTE (High Power / PC2)	B41: 28 dBm
WCDMA (3G)	B1, B5, B8: 25 dBm
Wi-Fi 2.4 GHz	2412–2472 MHz: 20 dBm
Wi-Fi 5 GHz	5150–5350 MHz: 18 dBm (Tylko do użytku wewnątrz)
Wi-Fi 5 GHz	5470–5725 MHz: 18 dBm (Wymagane DFS)
Wi-Fi 6 GHz	5945–6425 MHz: 16 dBm (LPI - tylko wewnątrz)