

Connected Appliance Regulatory Notices

Federal Communications Commission (FCC) and Industry Canada (IC) Compliance Notices

Changes or modifications not expressly approved by Whirlpool Corporation could void the user's authority to operate the equipment.

This Device complies with Part 15 of the FCC Rules and with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

The radio transmitter IC: 10248A-WICHI201 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with these devices.

Antenna Type	ANT Chain	ANT MFG	ANT PN#	Max Gain (dBi)	Required Impedance
Dipole	0	Antenova	SRF2W021-150	2.8dBi	50 ohms
Dipole	1	Antenova	SRF2W021-150	2.8dBi	50 ohms

RF Exposure Information

To comply with FCC and Industry Canada RF radiation exposure limits for general population, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.

En français: Le présent appareil est conforme aux CNR d'Industrie

Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique

subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée

équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. Le émetteurs radio IC : 10248A-WICHI201 ont été approuvés par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Type d'antenne	Chaîne d'antenne	Fabrication d'antenne	Numéro de pièce de l'antenne	Gain maximal (dBi)	L'impédance requise
Dipole	0	Antenova	SRF2W021-150	2.8dBi	50 ohms
Dipole	1	Antenova	SRF2W021-150	2.8dBi	50 ohms

Pour satisfaire aux exigences de la FCC et IC d'exposition aux radiofréquences, une distance de séparation de 20 cm ou plus doit être maintenue entre cet appareil et des personnes lors de fonctionnement du dispositif. Pour assurer la conformité des opérations au plus près que cette distance n'est pas recommandée. L'antenne utilisée pour ce transmetteur ne doit pas être co-localisés en conjonction avec toute autre antenne ou transmetteur.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

OEM Responsibilities to comply with FCC and Industry Canada Regulations

The WICHI201 Module has been certified for integration into products only by OEM integrators under the following conditions:

1. The antenna(s) must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times.
2. The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter.

As long as the two conditions above are met, further transmitter testing will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions cannot be met (for certain configurations or co-location with another transmitter), then the FCC and Industry Canada authorizations are no longer considered valid and the FCC ID and IC Certification Number cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC and Industry Canada authorization.

End Product Labeling

The WICHI201 Module is labeled with FCC ID and IC Certification Number. If the FCC ID and IC Certification Number are not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area or display the following:

“Contains FCC ID: A5UWICHI201”

“Contains IC: 10248A-WICHI201”

The OEM of the WICHI201 Module must only use the approved antenna(s), which have been certified with this module. The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module or change RF related parameters in the user manual of the end product.

The user manual for the end product must include the following information in a prominent location:

“To comply with FCC and Industry Canada RF radiation exposure limits for general population, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.”

Product Specifications

Product	Indigo-2 WiFi Module	
Brand	Whirlpool Corporation	
Test Model	WICHI201	
Power Supply Rating	12V DC	
Normal Testing Voltage	230V ac	
Temperature Operating Range	-20 ~ +70C	
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	Bluetooth LE	GFSK
	Bluetooth EDR	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	WLAN	DSS, OFDM
	Bluetooth LE	DTS
	Bluetooth EDR	FHSS
Transfer Rate	WLAN	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 72.2 Mbps
	Bluetooth LE	1Mbps
	Bluetooth EDR	1/2/3 Mbps
Operating Frequency	WLAN	2412MHz ~ 2472MHz
	Bluetooth LE	2402MHz ~ 2480MHz
	Bluetooth EDR	2402MHz ~ 2480MHz
Antenna Type	Dipole antenna with 2.8dBi gain	
Accessory Device	NA	

Installation

The Indigo 2 WiFi module is for professional / factory installation into an appliance only. It will be located in the user interface area.

Antenna type1: FPC antenna
Model name: FXP830.07.0050C
Antenna gain: 3.46 dBi

Antenna type2: FPC antenna
Model name: FXP831.07.0050C
Antenna gain: 3.28 dBi

Antenna type3: FPC antenna
Model name: 2108792-2
Antenna gain: 4.9 dBi