

ISL37704C Indigo Cardbus manual (preliminary)

Section xx: Regulatory notes

IEEE802.11 frequency assignments

UNII band	RF channel	Frequency	FCC USA	ETSI EU	MKK Japan	Singapore	Taiwan
1 5150 5250	34	5170			X		
	36	5180	X	X		X	
	38	5190			X		
	40	5200	X	X		X	
	42	5210			X		
	44	5220	X	X		X	
	46	5230			X		
	48	5240	X	X		X	
2 5250 5350	52	5260	X	X		X	X
	56	5280	X	X		X	X
	60	5300	X	X		X	X
	64	5320	X	X		X	X
3 5725 5850	149	5745	X			X	X
	153	5765	X			X	X
	157	5785	X			X	X
	161	5805	X			X	X

Table xx: IEEE802.11a channels

Caution: Within 5.15 to 5.25 MHz bands, UNII devices are **restricted to indoor operations** to reduce any potential harmful interference to co-channel Mobile Satellite Systems (MSS) operations.

This Indigo device is shipped with FCC-compliant firmware. In order to ensure regulatory-compliant channel usage in a particular country, special geographic-specific firmware is available for customer production assemblies which restricts channel usage. Examples include ETSI-compliant firmware, MKK-compliant firmware etc. Since the end user does not have the ability to alter this firmware, regulatory compliance is ensured.

Agency and Regulatory Body Approvals

This Indigo device complies with the standards as shown in table below:

country	Approval specification	notes
USA	FCC part 15, sections 15.107, 15.109, 15.207, 15.209, 15.407	Tested at accredited laboratories and filed for FCC certification.
European Union	EN 301 893 V1.1.1 (2001-01) ETSI EN 301 489-1 V1.3.1 (2001-07) ETSI EN 301 489-17 V1.1.1 (2000-09) EN60950 incl A1, A2, A3, A4	Tested at accredited laboratories and Notified according to article 6.4 of the RTTE directive
Japan	ARIB STD T71 v.1.0, 14 december 2000	Tested at TELEC laboratories and filed for MPT Japan certification.

Table xx: Compliance specifications

USA-FCC (Federal Communications Commission) statement

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

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



FCC Interference Statement

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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures:

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

Export restrictions:

This product or software contains encryption code which may not be exported or transferred from the US or Canada without an approved US Department of Commerce export license.

FCC Guidelines for Human Exposure

The EIRP was measured for the lower, middle and highest frequencies used by the transmitter. The results in Table xx below are based on a safe distance between antenna and operator of 8 inches (20 centimeters). The equipment therefore fulfills the requirements on power density for general population / uncontrolled exposure of 1.0 mW/cm² and therefore complies with the requirements of FCC OET Bulletin 65 including supplements A, B and C.

	Channel 36	Channel 48	Channel 64
Measured EIRP (mW)	70.8	67.6	69.2
Specific absorption Ratio SAR (mW/cm²)	0.06	0.05	0.06

Table xx: Compliance specifications

Caution: To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Europe - EU R&TTE Declaration of Conformity

This Wireless LAN Radio device is tested to and conforms with the essential radio test suites included in following standards:

Standard	Description and Explanation
LVD specification EN 60950	EN 60950, ed. (1992), incl. A1(1993), A2(1993), A3(1995) and A4(1997) Safety of information technology equipment, including electrical business equipment. Meets R&TTE directive art. 3.1.a of essential requirements on protection of the health and safety of the user.
ETSI EMC specification ETSI EN 301 489	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment

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Standard	Description and Explanation
	and services;
Part 1 V1.2.1 (2000-08)	Part 1: Common technical requirements
Part 17 V1.1.1 (2000-09)	Part 17: Specific conditions for Wideband data and HIPERLAN equipment
ETSI RF specification EN 301 893 V1.1.1 (2001-01)	Broadband Radio Access Networks (BRAN), HIPERLAN Type 2 Harmonised EN covering essential requirements of article 3.2 of the R&TTE Directive

Table xx: EU RTTE Compliance specifications

and therefore complies with the essential requirements and provisions of the **Directive 1999/5/EC** of the European Parliament and of the council of 9 march 1999 on Radio equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity and Annex IV (Conformity Assessment procedure referred to in article 10(4)).

	Important Notice : This device is a 5 GHz low power RF device intended for home and office use in EU and EFTA member states. In some EU / EFTA member states some restrictions may apply. Please contact local spectrum management authorities for further details before putting this device into operation
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Wireless LAN installation guide lines and Authorization for use

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by Intersil may void the user's authority to operate the equipment. Intersil is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution or attachment of connecting cables and equipment other than specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Intersil and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

The use of Wireless LAN devices may be restricted in some situations or environments for example:

- * On board of airplanes, or
- * In an explosive environment, or
- * In case the interference risk to other devices or services is perceived or identified as harmful.

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please first verify authorization to use these devices prior to operating the equipment.