FCC ID: HSW-Z2430 CFR 15, Subpart B and C Cirronet, Inc. ZMN2430

7 User's Manual



ZMN2430 Series Radio Module

ZMN2430

Manual

Preliminary

Cirronet, Inc.

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Important Regulatory Information

Cirronet Zigbee High Power - FCC ID: HSW-Z2430 IC: 4492A-Z2430

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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC User Information

"NOTE: 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 or more 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."

Warning: Changes or modifications to this device not expressly approved by Cirronet Inc. could void the user's authority to operate the equipment.

RF Exposure

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm shall be maintained from the user and/or general population.

Industry Canada

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. 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. Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

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ZMN2430 Frequency Selection

The ZMN2430 is not frequency agile during run-time, but it can select an unoccupied portion of the spectrum at startup.

The ZMN-2400 series uses a set of channels as defined by the IEEE 802.15.4 / ZigBee standards which span a range from 2405 to 2480 MHz with 5 MHz spacing between channels:

Center Frequency (M) Designator	Hz)	Nominal Occupied BW	ZigBee Channel
2405	44		2402.5-2407.5
2410	11		2407.5-2412.5
2415	12		2412.5-2417.5
2420	13		2417.5-2422.5
2425	14 (default) 15		2422.5-2427.5
2430			2427.5-2432.5
2435	16 17		2432.5-2437.5
2440			2437.5-2442.5
2445	18		2442.5-2447.5
2450	19 20		2447.5-2452.5
2455	21		2452.5-2457.5
2460			2457.5-2462.5
2465	22		2462.5-2467.5
2470	23		2467.5-2472.5
2475	24		2472.5-2477.5
2480	25 NOT USED 26		2477.5-2482.5

The *channel mask* is the name used to describe the list of frequency channels that a ZMN-2400 can use. The default channel mask for client radios allows them to operate on any frequency from 2405 to 2475 (channel 2480 is reserved for manufacturing test purposes and therefore not included).