

# WISM+ Manual

## Regulatory Compliance Section

### FCC/ IC Information

Part #	US/FCC	CANADA/IC
WLM400	KQL-WISMP	2268C-WISMP

### Antenna List

The WLM400 has been designed to operate with the antenna listed below and having a maximum gain of 2.5dbi. The required antenna impedance is 50 ohms.

Item	Part Number	Mfg.	Type	Gain (dBi)
1	S181FL-6-PX-2450S	Nearson	Dipole	2.5
2	S151FL-6-PX-2450S	Nearson	Dipole	5

- The OEM is free to choose another vendor's antenna of like type and equal or lesser gain as an antenna appearing in the table and still maintain compliance. Laird Technologies offers several different options for dipole antennas. Contact your Laird sales representative for more information.

### ANTENNA REQUIREMENT

To reduce potential radio interference to other users, the antenna type and gain should be chosen so that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

### FCC/ IC MODULAR APPROVAL

The WLM400 has been granted an FCC / IC modular approval. Further RF testing by the OEM is not needed to comply with FCC / IC standards for intentional radiators pursuant to FCC Part 15 Subpart C and RSS-210.

The WLM400 has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 Subpart B of the FCC Rules. The OEM is responsible for verifying that their equipment complies with the unintentional radiator limits set forth in Subpart B once the WLM400 has been integrated into their product.

**NOTE:** The limits for a Class B digital device 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. 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:

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

**Portable** – Portable is a classification of equipment where the user, in general, will be within 20 cm of the transmitting antenna. Portable equipment is further broken down into two classes; within 2.5 cm of human contact and beyond 2.5 cm. The WLM400 is not agency approved for portable applications. Operation at distances of less than 20 cm would require additional RF exposure evaluation, including SAR requirement according to FCC RF Exposure guideline. Contact Laird Technology for more details.

**Mobile** – Mobile defines equipment where the user will be 20 cm or greater from the transmitting equipment. The antenna must be mounted in such a way that it cannot be moved closer to the user with respect to the equipment, although the equipment may be moved. The WLM400 has been approved for mobile applications

## OEM EQUIPMENT LABELING REQUIREMENTS

**WARNING:** The OEM must ensure that FCC labeling requirements are met. This includes a clearly visible label on the outside of the OEM enclosure specifying the appropriate Laird Technology FCC identifier for this product as well as the FCC notice below. The FCC identifiers are listed above.

Contains FCC ID:KQL- WISMP

This enclosed 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

Label and text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight point.

## CAUTION

Any changes or modifications not expressly approved by Laird Technology could void the user's authority to operate the equipment.

## WARNINGS REQUIRED IN OEM MANUALS

**WARNING:** This equipment has been approved for mobile applications where the equipment should be used at distances greater than 20cm from the human body. Operation at distances of less than 20cm is prohibited and requires additional SAR evaluation .

## CE Information

Part #	Standards Conformity is Declared To
<b>WLM402</b>	ETSI EN 301 489-1 V1.8.1 (2008-04) ETSI EN 301 489-17 V1.2.1 (2002-08) ETSI EN 300 328-2 V1.7.1 (2006-05)

- A Declaration of Conformity for the WLM402 is available upon request. Contact your Laird sales representative.

## Antenna List

- The WLM402 has been designed to operate with the antenna listed below and having a maximum gain of 2.5dbi. The required antenna impedance is 50 ohms. The OEM is free to choose any other antenna of equal or lesser gain and still maintain compliance.

Item	Part Number	Mfg.	Type	Gain (dBi)
1	S181FL-6-PX-2450S	Nearson	Dipole	2.5