

Integration Instructions for IMD-2000

This document is intended to inform and support users of the IMD-2000 radar module when integrating it into host devices.

List of applicable FCC rules/ISED radio standards

This device complies with Part 15 of the FCC, specifically §15.249.

Specific operational use conditions

Specific operating conditions do not apply.

Limited module procedures

Not applicable; this transmitter is a full modular approval

Trace antenna designs

The module is only to be used with the integrated antenna.

RF exposure considerations

The conducted/radiated output power of the device is far below the FCC and ISED radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized.

Antennas

The IMD-2000 radar module has an integrated patch antenna designed for the 24.150 to 24.250 GHz frequency band used by the module with an antenna gain of 8,3 dBi.

Label and compliance information

The host product must be labeled with:

Contains FCC ID: UXS-IMD-2000

Information on test modes and additional testing requirements

This module has been fully tested and complies with all rules laid out in FCC § 15.249. However, when installing it into a host device, it is strongly advised to perform investigative measurements and, should the need arise, re-test certain aspects like spurious emissions limits or band edge limits as well as e intermixing of emissions with the other transmitters within the host device. If the investigation indicates a compliance concern the host product manufacturer is obligated to mitigate the issue.

Additional testing, Part 15 Subpart B disclaimer

This modular transmitter is only FCC/ISED authorized for the specific rule part/radio standards specification listed on the grant/certificate. The host product manufacturer is responsible for compliance to any other FCC rules/ISED radio standards specifications that apply to the host not covered by the modular transmitter grant of certification.

If the host product manufacturer markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital curcuity), then the host product manufacturer shall provide one of the following notices (whichever is applicable in the user manual:

Class A:

For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Class B (use in a residential environment):

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

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.