

Procuro Module JN5139M4

INSTALLATION MANUAL

FCC: Y6Z5139M4

INFORMATION TO USER

All devices using the Procuromodule JN5139M4 need to add the following regulatory statements in the user manual:

This device FCC: Y6Z5139M4 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 equipment has been tested and found to comply with the limits for 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 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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This radio transmitter IC: 7438A-5139M4 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 this device.

- Antenna TZD-P2400Z2-10

Le présent émetteur radio IC: 7438A-5139M4, a été approuvé 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.

- Antenna TZD-P2400Z2-10

OPERATIONAL FREQUENCY AND POWER LEVELS

The Procuromodule JN5139M4 operates under the IEEE802.15.4 standard and its design meets the requirement set by the wireless modules manufacturer specifications. The power supply to the modules need to be regulated and within limit of the specifications.

The module has a built-in power regulator that ensures compliance with Part 15 requirements regardless of the design of external power supply.

The frequency is controlled internally and a data buffer is provided by the module to avoid excessive data rate or over-modulation.

INSTALLATION AND OPERATION

The Procuromodule JN5139M4 should be soldered directly to the controller board via 41 PCB pads. Pin configurations, power management, and data interfaces need to be designed according to the specification required by the manufacturer.

The Procuromodule JN5139M4 provides RF communications to receive, recover, and transmit digital data through RF signals.

ANTENNA

Only the antenna listed below shall be used to operate with the Procuromodule JN5139M4. This is a small omni-directional antenna that meets the specification required by the wireless module and complies with the required gain and signal strength approved by the regulatory entities.

The use of a different antenna is not supported by this module and will render all certifications non-applicable to the regulatory entities.

- Antenna TZD-P2400Z2-10

The antenna is fixed to the Procuromodule JN5139M4 by applying Loctite threadlocker 220 medium strength blue to the SMA connector that connects the antenna to the module's antenna connector. Thus, the antenna is not removable or accessible to the user to comply with part 15.203.

LABEL

All devices containing the Procuro Module JN5139M4 must have a label in the exterior case displaying the following information:

- Contains FCC ID: Y6ZJN5139M4
- Contains IC: 7438A-JN5139M4
- Contient IC: 7438A-JN5139M4