

T2002 – USB Wiji Access Point

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## 1 Introduction

This user manual includes the most important information concerning the wireless access point T2002.

## 2 Overview

### 2.1 Applications

This device is a wireless access point. It is used for radio communications using the Wiji protocol developed by Ijinus. It allows point to point communication with wireless devices (sensors, loggers,....).

It is typically connected to a laptop where is installed a software able to manage data transfer with de wireless devices.

This software is "Avelour". It manages most of Ijinus wireless devices.

### 2.2 Product Specification

#### 2.2.1 Power supply :

Powered by the 5V usb voltage. (USB B connector)

Current consumption : 50mA max

Operating temperature range : -20...+85°C

Storage temperature range : -40...+85°C

Typical Operating Range : Up to 200m\*

\* Wireless performance may vary depending on the networking environment.

#### 2.2.2 Power / Activity LED

Lights when the access point is powered on and flashes when it is active.

#### 2.2.3 System Requirements

PC-compatible laptop with one available USB port

Windows® XP, Vista, 7

**IMPORTANT:** INSTALL THE SOFTWARE BEFORE INSERTING THE USB CABLE

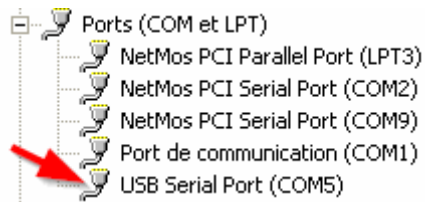
### 3 Installation

The drivers are automatically installed during the installation of “Avelour” (software used to managed the wireless devices).

The device is seen as an USB Serial Port.

When the access point is plugged on the laptop, it is automatically recognized.

In peripheral manager you should see:



## 4 Operating and safety instructions

- Wireless devices should be placed at least 1m far from the access point to avoid radio saturation.
- Do not open the device.
- Do not use antennas not recommended by Ijinus.
- Do not use the device under rain.
- Unplug the antenna after use, to avoid connector break during transportation.
- Do not handle the devices using the antenna.
- Do not handle the devices using the cable.
- Do not mechanically force the connectors.
- Do not use tools to screw the radio connectors. It is designed to be hand screwed.
- Do not shake the devices.
- Do not physically modify the devices.
- Do not clean the devices with aggressive products like acetone.

### 4.1 Warning to users in the United States

#### **Federal Communication Commission Interference Statement 47 CFR Section 15.105(b)**

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 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.

This device T2002 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.

**47 CFR Section 15.21**

CAUTION: This equipment may not be modified, altered, or changed in any way without signed written permission from IJINUS. Unauthorized modification may void the equipment authorization from the FCC and will void the IJINUS warranty.

This device complies with FCC RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter

**To comply with the FCC part15 §15.203, the antenna is glued on its connector to avoid the user to exchange the antenna to another model not recommended by Ijinus.**

**4.2 Warning to users in the Canada**

This device complies with Industry Canada licence-exempt RSS standard(s). 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 the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 2dBi. Antennas not included in this list or having a gain greater than 2dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

List of acceptable antennas:

- NEARSON S467AM-915 (2dBi)
- Antenna Factor : ANT-916-CW-HWR-SMA (0dBi)

## 5 Contacts

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## 6 Document Historical

Date	Revision	Writer(s)	Changes
25/03/2013	A01	ALG	Creation
05/04/2013	A02	ALG	IC warning added
24/04/2013	A03	ALG	Add-on relative to the FCC Part15 §15.203



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