



Ardulink is a Java Open Source project. Please visit www.ardulink.org for more information.

Ardulink depends on some Java libraries and native code.

This is a detailed list:

Serial Connection

Serial Connection is the main connection method to Arduino boards. Ardulink SerialConnection uses serial RXTX library.

RXTX library site is <http://rxtx.qbang.org>

RXTX native code for windows systems (rxtxSerial.dll) is already in Ardulink distribution package. You can install RXTX for other systems reading instructions on RXTX site.

For linux systems you could use this command:

```
sudo apt-get install librxxtx-java
```

Bluetooth Connection

Bluetooth Connection is intended for Arduino boards equipped with a bluetooth extension. This connection is developed and tested with an HC-06 board attached to an Arduino UNO. It uses bluecove 2.1.0 java library. In the Ardulink distribution you will find the bluecove jar but not the bluecove GPL jar intended for linux systems. If you need for it, you can download it from bluecove site.

Bluecove site is <http://bluecove.org>

USB Connection

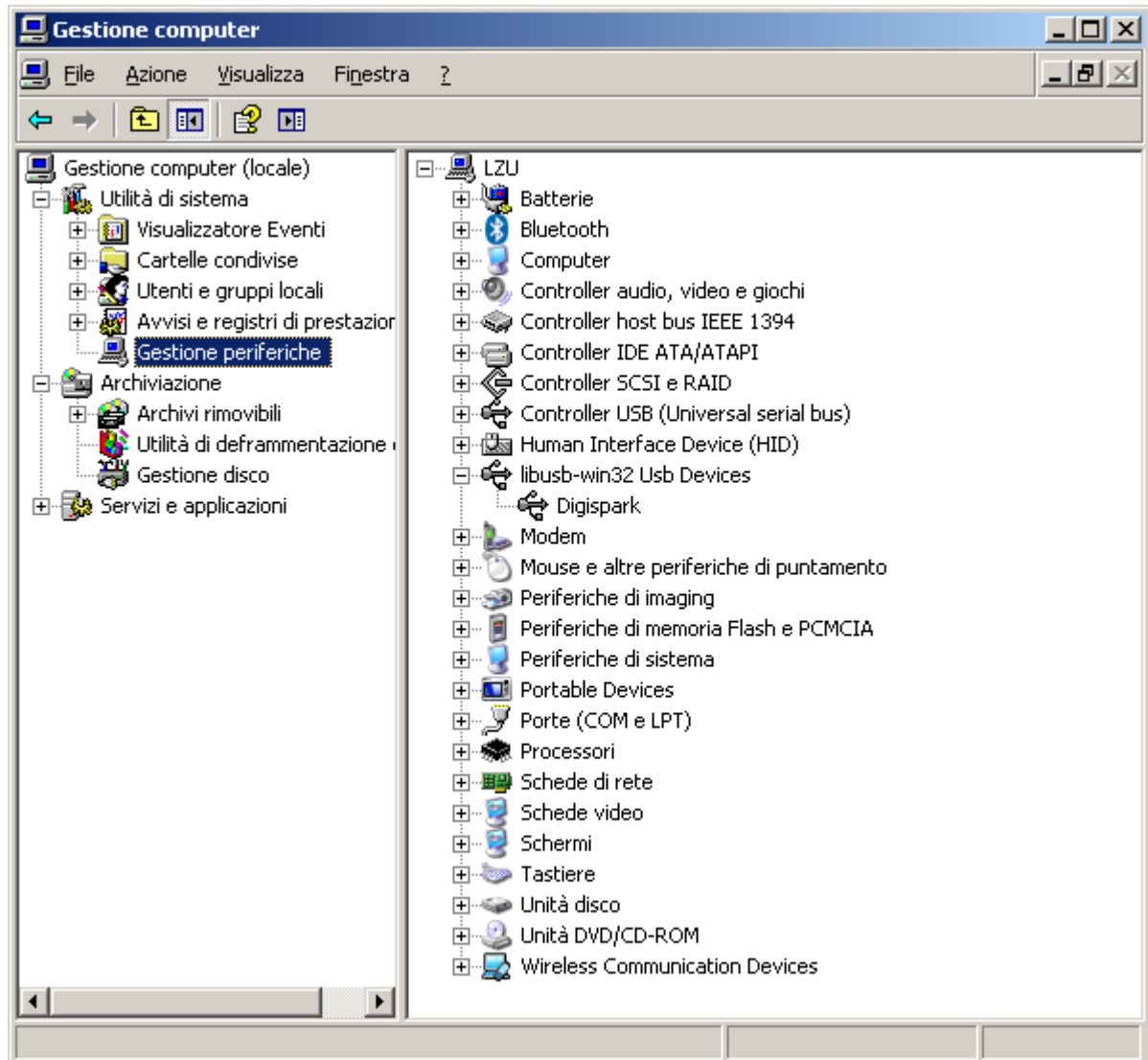
USB connection is intended for Arduino boards that don't have serial connection feature on USB. Actually Ardulink uses this connection for Digispark board (www.digistump.com) and PicoDuino board (www.tindie.com/products/bobricius/picoduino).

Ardulink USB Connection uses Java libusb / libusb-win32 wrapper

(<http://libusbjava.sourceforge.net/wp/>). This java library is a wrapper for libusb (0.1) (<http://www.libusb.org/>) and libusb-win32 (<http://libusb-win32.sourceforge.net/>) USB library.

Please check each library's site to install instructions.
For windows systems you should:

- extract libusb-win32-bin-1.2.6.0.zip
- run inf-wizard.exe
- select Arduino board and finish the wizard
- install USB device using .inf file created



Picture 1: Device Digispark created

Compatibility list

Ardulink is generic and should work with almost any Arduino boards and Arduino clone boards. However, I have tested Ardulink only with some versions of Arduino or Arduino clones.

Actually I tested, in chronological order, Ardulink with:

Board	Site	Ardulink Connection class	Ardulink GUI panel
Arduino UNO	www.arduino.cc	SerialConnection	SerialConnectionPanel
Digispark	digistump.com	DigisparkUSBConnection	DigisparkConnectionPanel
Arduino Micro	www.arduino.cc	SerialConnection	SerialConnectionPanel
Zigduino r2	logos-electro.com	SerialConnection	SerialConnectionPanel
PicoDuino	On tindie	DigisparkUSBConnection	DigisparkConnectionPanel
ChipKIT Uno32	chipkit.net	SerialConnection	SerialConnectionPanel
Crowduino With ATmega 328 V1.1	Elecrow	SerialConnection	SerialConnectionPanel
Crowduino Uno-SD V1.4	Elecrow	SerialConnection	SerialConnectionPanel