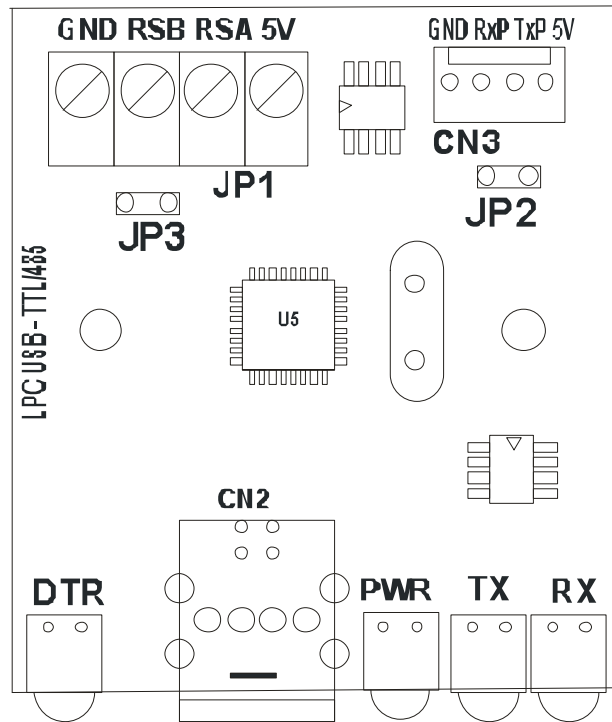


# LPC - USB



***!!! CAUTION !!!***

***BEFORE DOING ANY CONNECTION, CHECK THE "TTL" AND "RS485" WIRING DIAGRAM (PAG. 3 y 4)***

# SPECIFICATIONS

This board will enable you to communicate with the whole family of JR Security Systems control panels, it is possible to establish communication using the TTL (RS) channel or using RS485.

It can be also be used as an universal USB-RS485 converter.

Power Supply: ..... *From USB connector, 5V - 500mA / max*

Consumption: ..... *Standby: 11mA*  
*Max.: 30mA*

Supported communication speeds: ..... *300 – 115000 bps.*

RS485 Bus Range: ..... *Up to 1500m*

# CONNECTORS

CONNECTOR	DESCRIPTION
JP1	RS485 bus connector, here you can connect with DomoVox, LT-2G and PRO-4G
CN2	USB-B Connector, where the computer must be plugged
CN3	TTL (RS) connector, direct connection using 4 wires transparent cable.
5V	This +5V output it intended to power supply devices without the need of powering them from mains or battery. However, be sure to check if the device supports powering from +5V, as damage can result to the device.

# JUMPERS

JUMPER	FUNCTION
JP2	<b>Closed:</b> Disables RS485 bus.
	<b>Open:</b> Enables RS485 bus.
JP3	<b>Closed:</b> Enables the 120Ω end of line resistor of the Rs485 bus.
	<b>Open:</b> Disables the end of line resistor of RS485 bus.

**Important:** The RS485 communication using RS485(JP1) or TTL (CN3), cannot be used at same time, so if you like to use RS485 you should unplug any device in CN3 and if you wish to use CN3 you should unplug any device in JP1 or open the JP2 jumper.

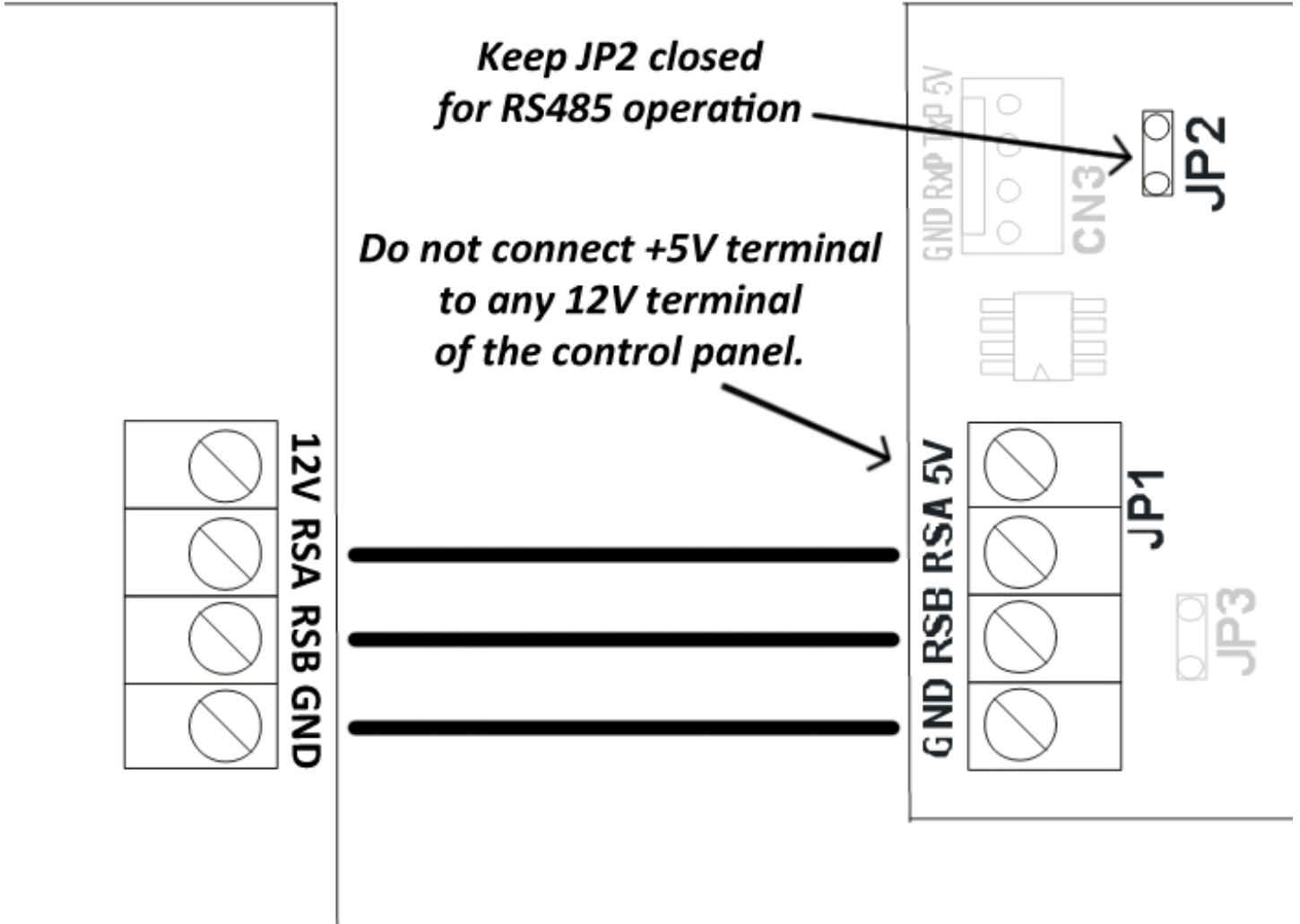
# RS485 WIRING DIAGRAM (JP1)

Use the following terminals, to connect via RS485 to the following JR Security products.

- Domovox
- Central-4G
- GSM-Pro
- Lite-2G

## CONTROL PANEL

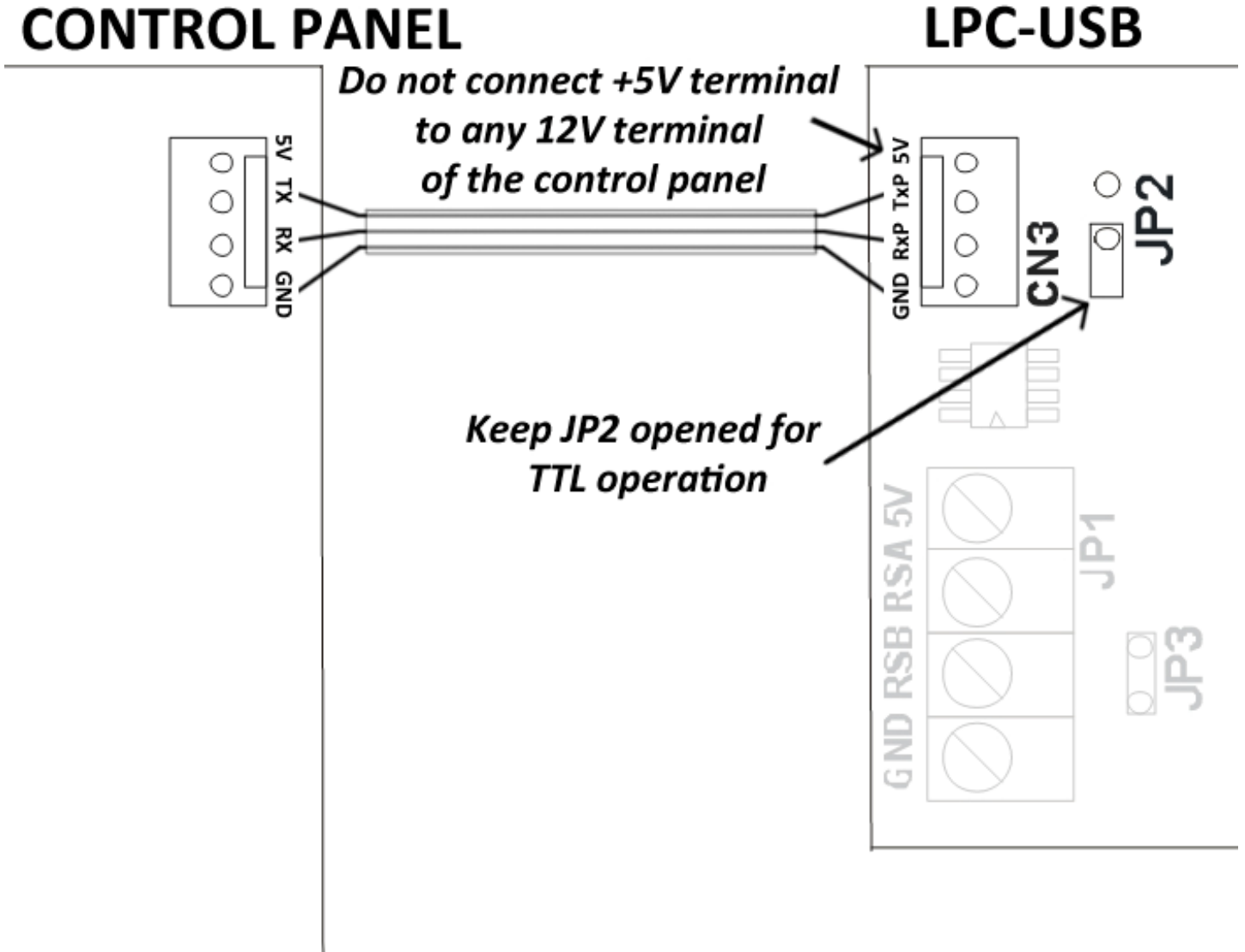
## LPC-USB



# TTL WIRING DIAGRAM (CN3)

Use the following terminals, to connect via TTL to the following JR Security products.

- Domovox
- GSM-Pro
- Centrum-A1/A2
- GSM-Lite
- Centrum 10
- Centrum A12



## LEDS

**DTR** : Data Terminal Ready, the computer is on line.

**PWR** : The device is power supplied.

**TX** : Data coming from the computer.

**RX** : Data going to the computer.

# INSTALATION OF USB DRIVER

The Driver of the USB device for Win2K/XP it is located in the JR-Express CD or you could download it from [www.jrsecurity.com/support](http://www.jrsecurity.com/support).

To install the USB Driver of the device follow the following steps:

1. Connect the device to a free USB port in your PC. This will launch the Found New Hardware Wizard of Windows. Press “Next” to proceed with the installation.



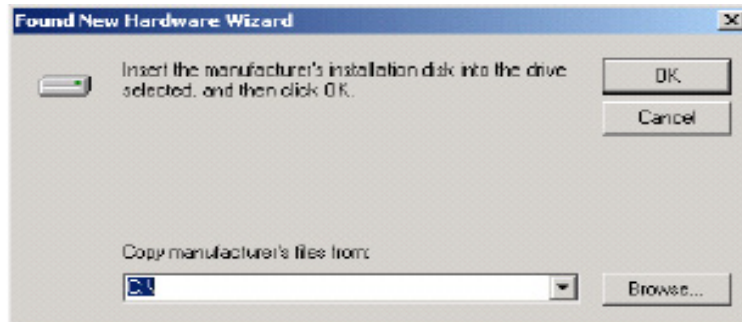
2. Select “Search for a suitable driver for my device (recommended)” like it is shown in the following capture and press “Next”.



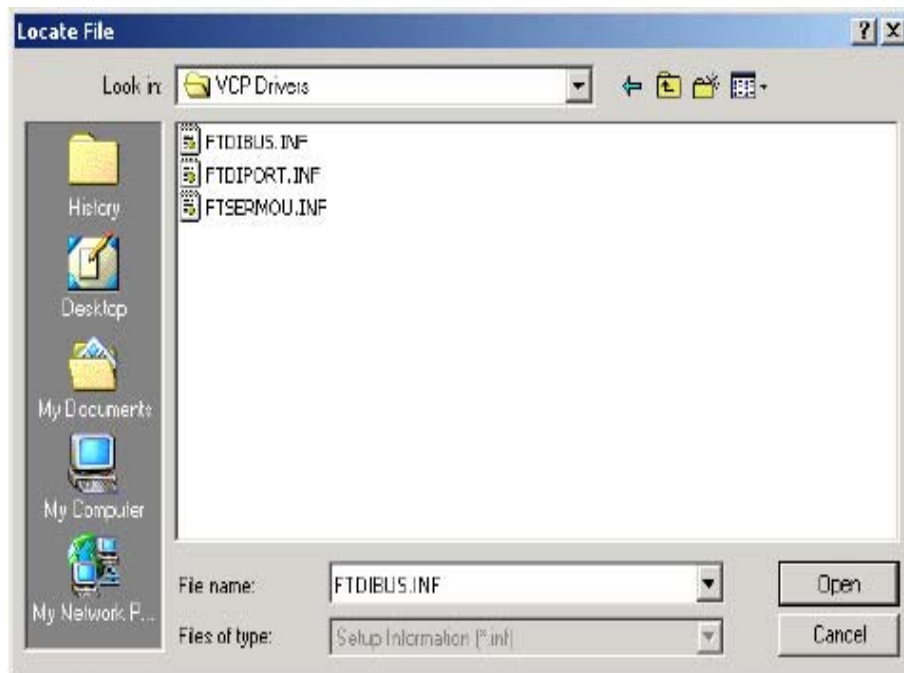
3. Mark the checkbox “Specify a location” unmark all the others like shown above.



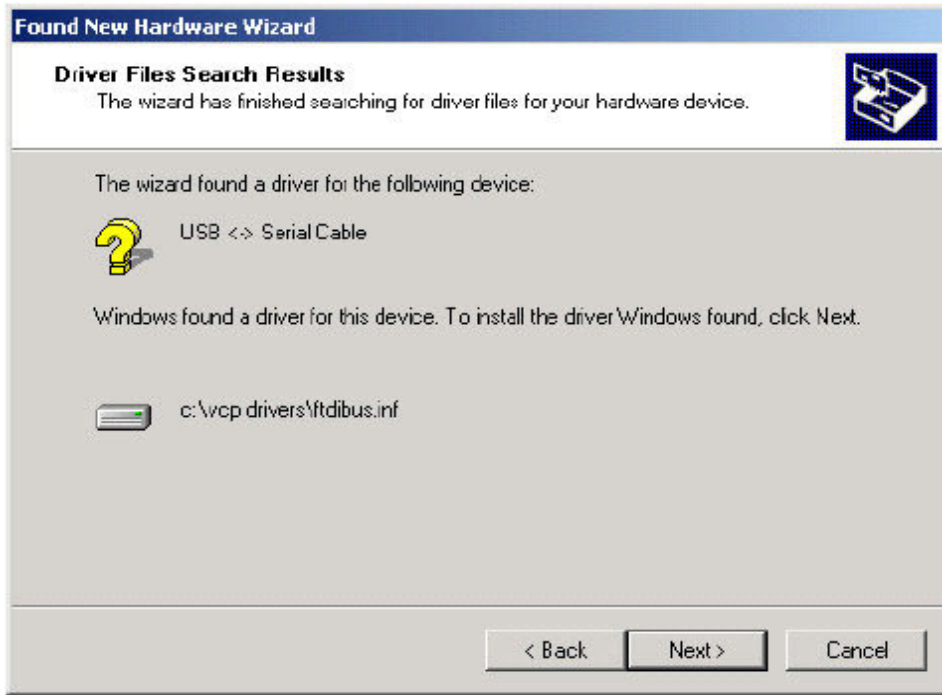
4. Pressing “Next” a dialog box will be shown in order to introduce the location of the drivers.



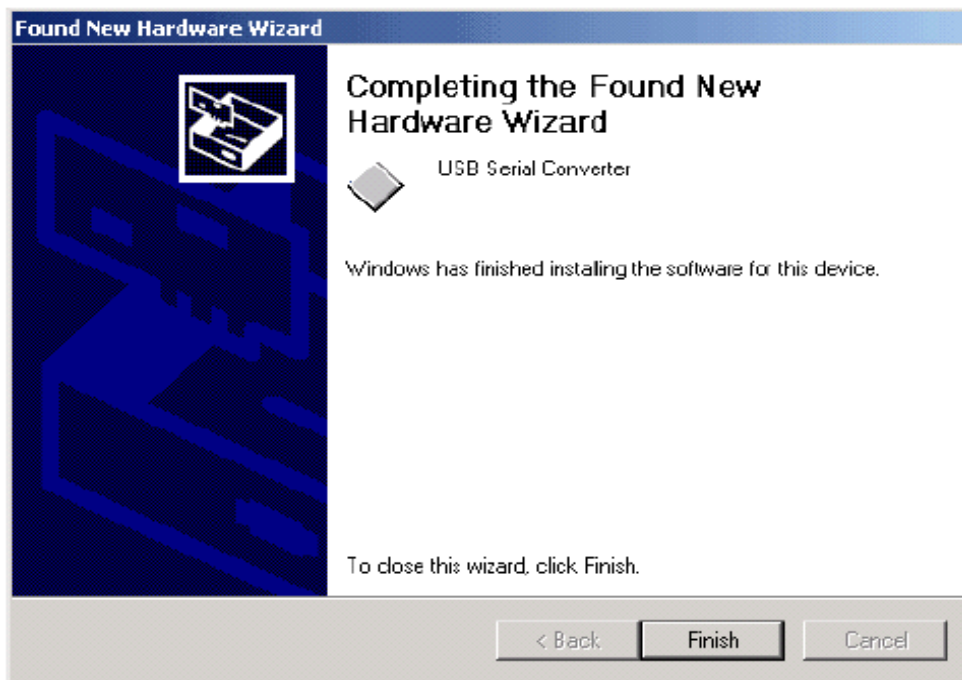
5. Press “Browse” to show an open file dialog box.



6. Look for the folder containing the latest drivers in the CD-ROM, and press “Open”, then click “OK”. Once Windows has found the required .INF files, press “Next” to continue.



7. Windows should be now showing a message indicating that the installation was successfully accomplished Windows. Click “Finish” to complete the installation. The device is now prepared to be used.



8. Having a look at the Device Manager (situated in the Control Panel\System, select the tab “Hardware” and click “Device Manager”), the device appears such as a “*USB Serial Port*” connected to a USB port.

