GV-NET/IO Card V3.1

The GV-NET/IO Card is a RS-485 / RS-232 interface converter, and provides 4 inputs and 4 relay outputs as well. It supports both DC and AC output voltages.

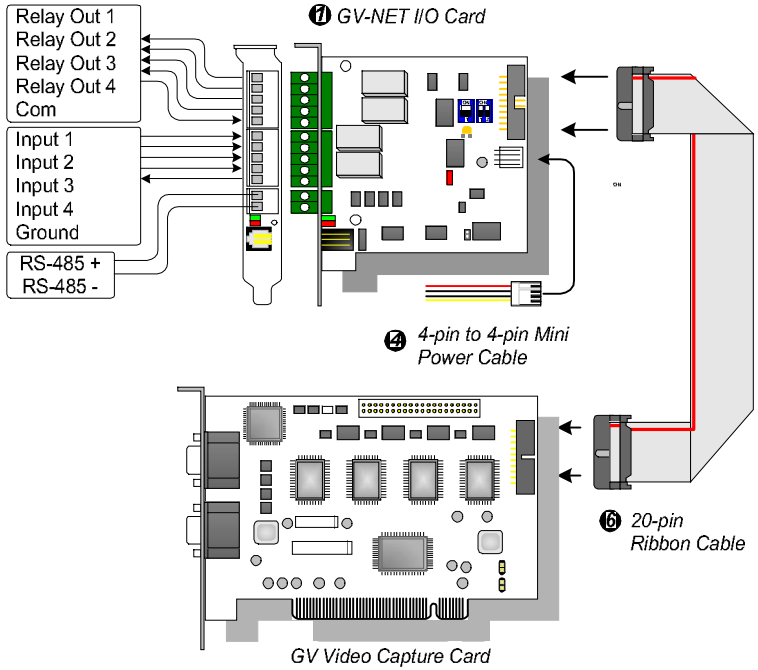
Key Features

- A USB port is provided for PC connection, and it is used with 30 DC output voltages.
- It can switch between two modes, NET/IO Card Mode and I/O Box Mode, which expand its capability.
- Up to 4 GV-NET/IO Cards can be chained together when it is on the I/O Box Mode.
- It can act as an independent device when it is on the I/O Box Mode.

Packing List

1. GV-NET/IO Card x 1
2. 20-Pin Ribbon Cable with 4 Connectors x1
3. RJ-11 to DB9 Cable x 1
4. RJ-11 to USB Cable x 1
5. 3-Pin Internal USB Cable x 1
6. 4-Pin to 4-Pin Mini Power Cable x 1
7. Installation Guide x 1

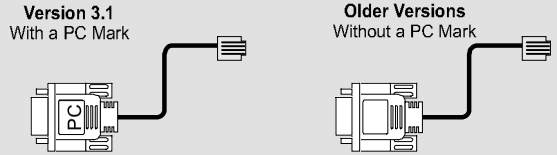
Overview



GV-NET/IO Card connections

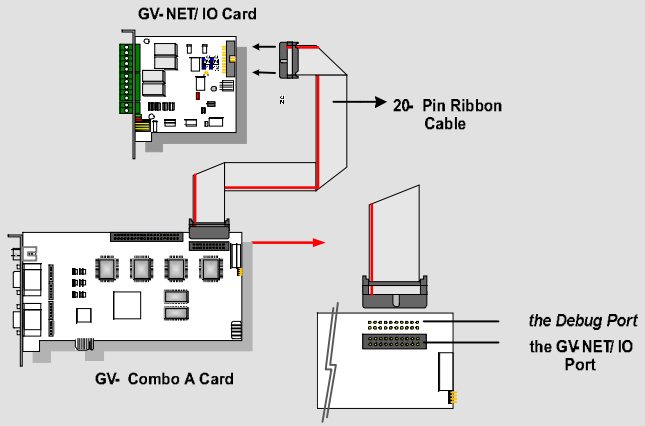
Note:

1. The supplied RJ-11 to DB9 Cable of older versions is not compatible with the GV-NET/IO Card V3.1.



2. When the GV-NET/IO Card V3.1 is in the I/O Box mode, it is incompatible with the GV-IO 12-In Card of versions earlier than V3.
3. To prevent the noise interference in I/O operation, tightly screw the GV-NET/IO Card V3.1 to the PC case.

4. Ensure to connect the GV-NET/IO Card to the 20-pin GV-NET/IO port on the GV-Combo A Card as illustrated below. The wrong connection may lead to the GV-NET/IO Card or the GV-Combo A Card to be damaged, causing Video Lost or an error message of "can't find keypro" to pop up.



Connections with Two Video Capture Cards

If your system is equipped with two video capture cards, connect the GV-NET/IO Card to the video capture card of 1-16 channels.

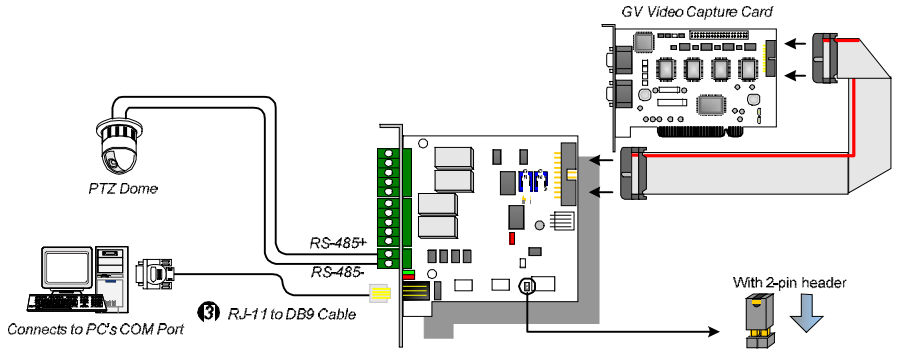
Connections in NET/IO Card Mode

For the connections in the NET/IO Card Mode, please follow the instructions below:

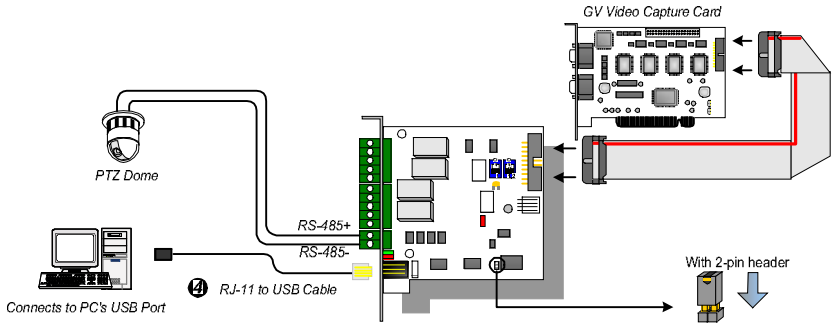
- It is required to connect the GV-NET/IO Card to GV-Video Capture Card with the 20-Pin Ribbon Cable.
- If you want to connect the GV-NET/IO Card to RS-485 devices, you have three ways of connections. See below.

Three Ways of Connections of GV-NET/IO Card and RS-485 Devices:

1. You can connect a RJ-11 to DB9 Cable to the PC's COM Port when a RS-485 device is connected. **(Allowed for AC/DC Output Voltage)**

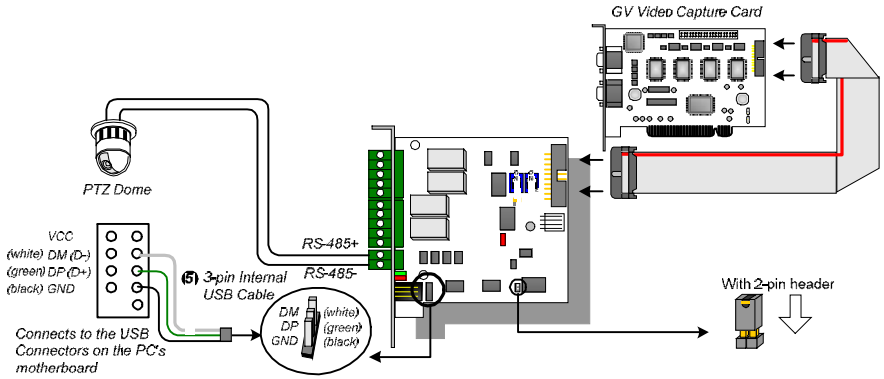


2. You can connect a RJ-11 to USB Cable to the PC's USB Port when a RS-485 device is connected. **(Allowed for AC/DC Output Voltage)**



Note: It is required to install the USB driver. For details, see *Installing USB Driver* later in the Installation Guide.

3. You can connect a 3-Pin Internal USB Cable to the USB Connectors on the PC's Motherboard when a RS-485 device is connected. **(Allowed for AC/DC Output Voltage)**



Note: It is required to install the USB driver. For details, see *Installing USB Drive* later in the Installation Guide.

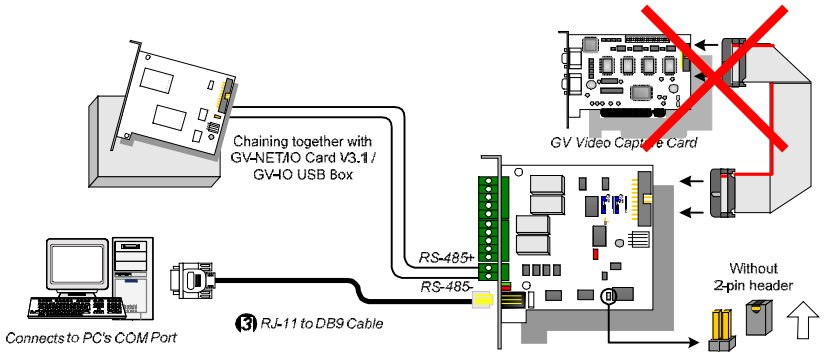
Connections In I/O Box Mode

For the connections in the I/O Box Mode, please follow the instructions below:

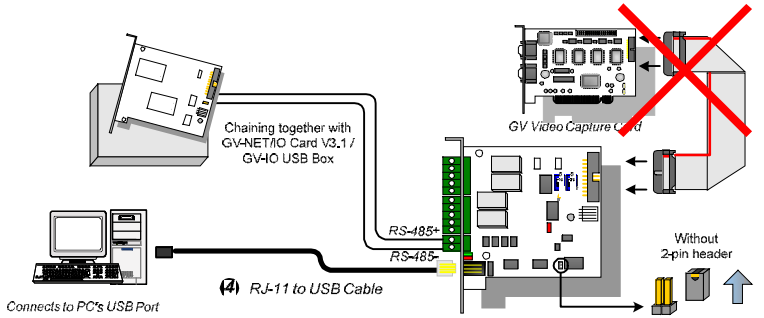
- It is not necessary to connect the GV-NET/IO Card to GV-Video Capture Card.
- Connect the GV-NET/IO Card to the PC by one of the following three ways.

Three Ways of Connections of GV-NET/IO Card and PC:

1. You can connect a RJ-11 to DB9 Cable to the PC's COM Port. **(Allowed for AC/DC Output Voltage)**

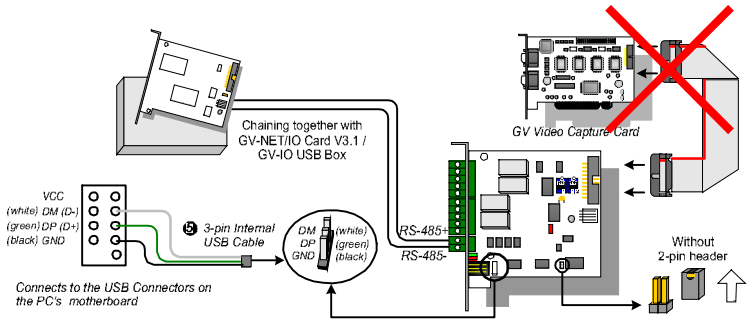


2. You can connect a RJ-11 to USB Cable to the PC's USB Port. **(Allowed for DC Output Voltage only)**



Note: It is required to install the USB driver. For details, see *Installing USB Driver* later in the Installation Guide.

3. You can connect a 3-Pin Internal USB Cable to the USB Connectors on the PC's Motherboard. **(Allowed for DC Output Voltage only)**

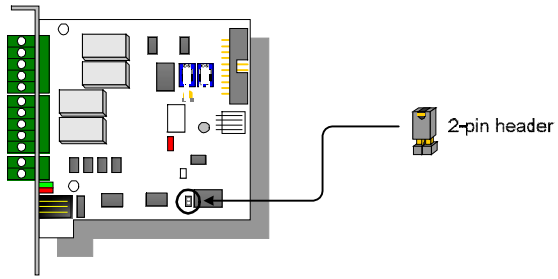


Note: It is required to install the USB driver. For details, see *Installing USB Driver* later in the Installation Guide.

Switching Modes

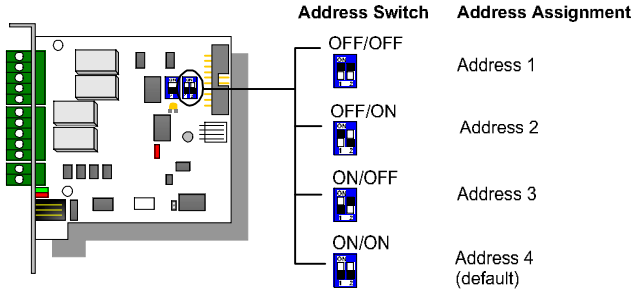
The GV-NET/IO Card provides two modes for users to expand its capability: I/O Box Mode and NET/IO Card Mode. With a mode-switch jumper to insert on the 2-pin header, you can switch between modes.

- **NET/IO Card Mode (default):** With the switch jumper inserted, this default mode acts as a GV-NET/IO Card. It is required to connect the GV-NET/IO Card to the GV-Video Capture Card for usage.
- **I/O Box Mode:** Without the switch jumper inserted, the GV-NET/IO Card can work as an independent device. It is NOT necessary to connect to the GV-Video Capture Card for usage.



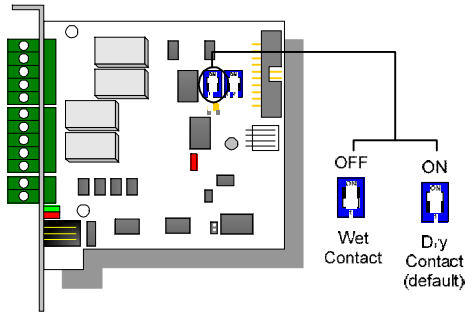
Extended Connections

Via the RS-485 connectors, up to 4 GV-NET/IO Cards can be chained together when the GV-NET/IO Card is on the I/O Box mode. For extended connections, the address assignment is shown below.



Note: When the GV-NET/IO Card is set to the I/O Box Mode, it can have extended connections with GV-I/O Boxes.

DIP Switch

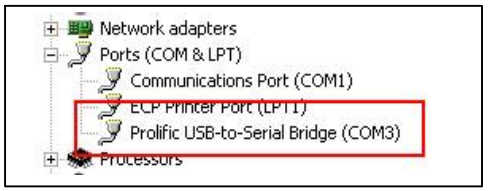


Installing USB Driver

To use the USB function, it is required to install the driver on the PC. Follow these steps to install the driver:

1. Insert the software CD. It will run automatically and pop up a window.
2. Select **Install or Remove GeoVision GV-Series Driver**, and then click **Install GeoVision USB Devices Driver**. This dialog box appears.

3. Click **Install** to install the drivers. When the installation is complete, this message will appear: *Install done!*
4. Click **Exit** to close the dialog box.
5. To verify the drivers are installed correctly, go to **Device Manager**. Expanding the **Ports** field, you should see one entry for Prolific USB-to-Serial Bridge.



Specifications

OS Supported	**32-bit**	Windows XP / Vista / 7 / Server 2008	
	64-bit	Windows 7 / Server 2008	
Input	**Input**	4	
	Input Signal	Dry Contact, Wet Contact 9~30V AC/DC	
Output	**Relay Output**	4	
	Relay Status	Normal Open	
	Relay Capacitance	USB Connection	30V DC, 3A
		RS-232 Connection	125 / 250V AC, 3A 30V DC, 3A
Interface	RJ-11 to DB9		
	RJ-11 to USB		
	3-Pin Internal USB to Internal USB		
Mode Switch	I/O Box Mode	Without GV-Video Capture Card	
	NET/IO Card Mode	With GV-Video Capture Card	
Address	1~4		
Communication	RS-485, USB, RS-232		
Environmental Condition	0~50 Degree C / 32~122 Degree F 5%~95% (Non-Condensing)		
Compatible Model	All GV-Video Capture Card Models		
Dimensions (W x H)	99 x 90 mm / 3.90 x 3.54 in		

Ordering Information

55-IOCRD-310