



Everlink

User's Manual

PI-1030/PI-1230

V1.00-12-07-2017

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1. Introduction

Everlink.exe is design for PI series to achieve manage multiple PI series to upgrade, transfer file and sending message. It can communicate to ControlCenter for cloud service.

- System requirements

To run the program, one of the windows operating system is required.

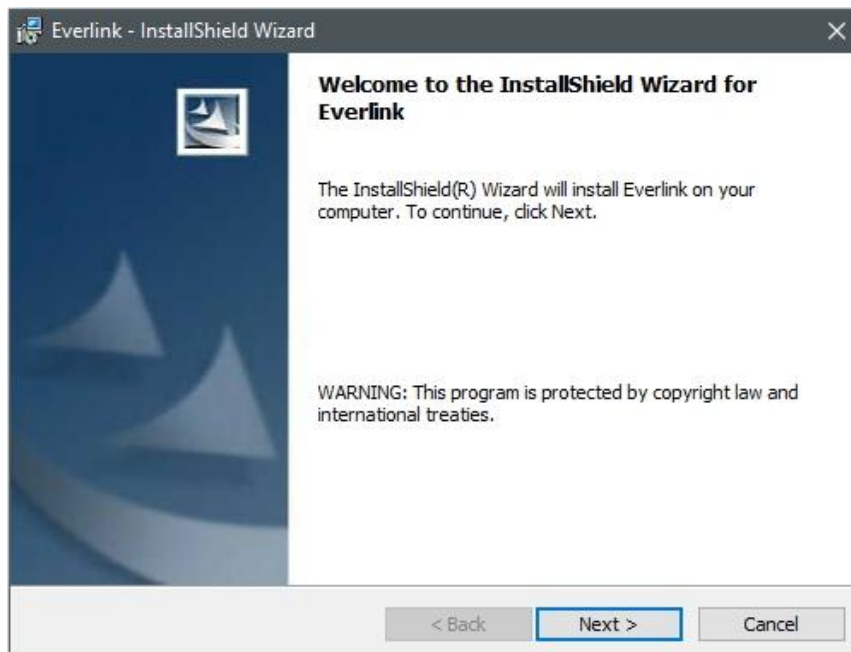
- Windows XP
- Windows 7
- Windows 8
- Windows 10

1.1. Install Everlink

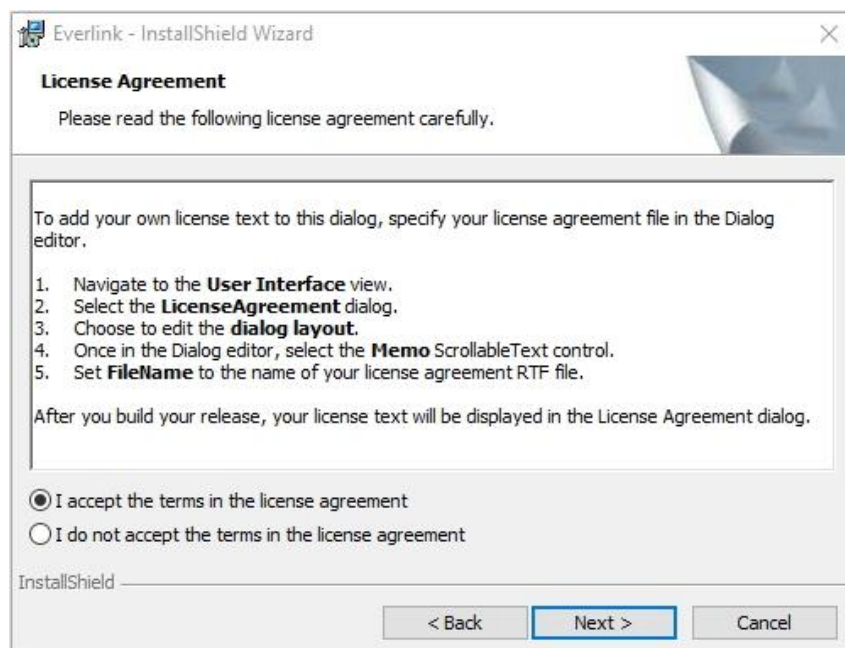


Note if you want to install a new version of Everlink, go to windows setting to uninstall it.

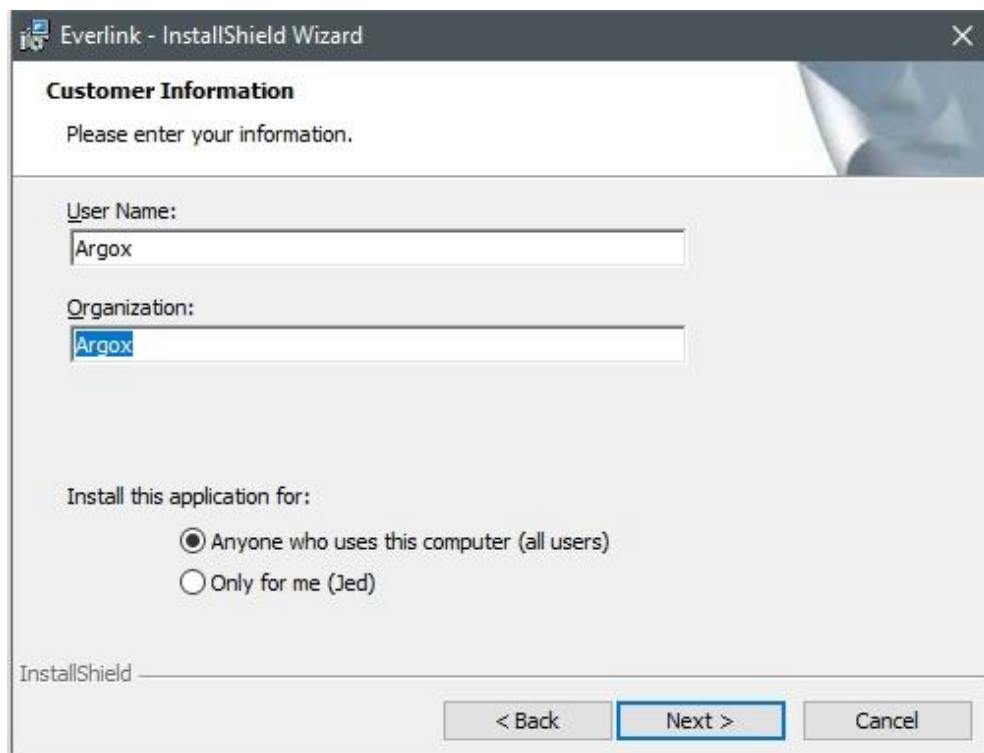
1. In the Everlink- InstallShield Wizard, click Next.



2. Select "I accept the terms in the license agreement" and click Next.

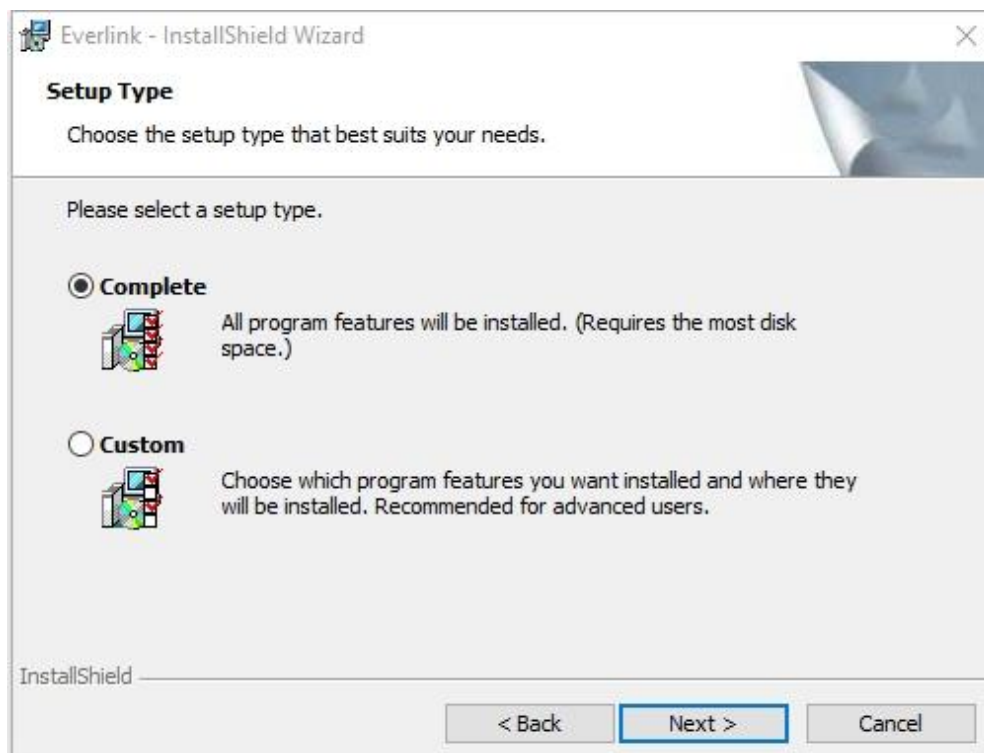


3. Enter User Name and Company Name, then click "Next".



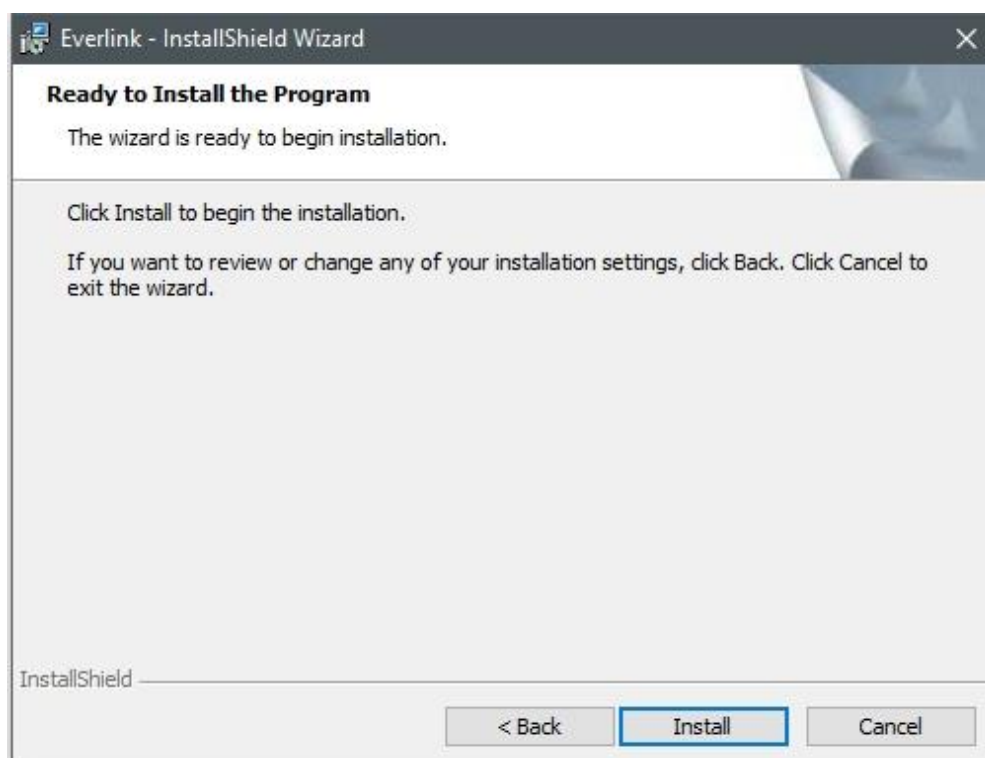
The screenshot shows the 'Customer Information' screen of the 'Everlink - InstallShield Wizard'. The window title is 'Everlink - InstallShield Wizard'. The main heading is 'Customer Information' with the instruction 'Please enter your information.' Below this, there are two text input fields: 'User Name:' with 'Argox' entered, and 'Organization:' with 'Argox' entered. Underneath, there is a section 'Install this application for:' with two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me (Jed)'. At the bottom, there is a status bar with 'InstallShield' and three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

4. Click Complete option and click next.

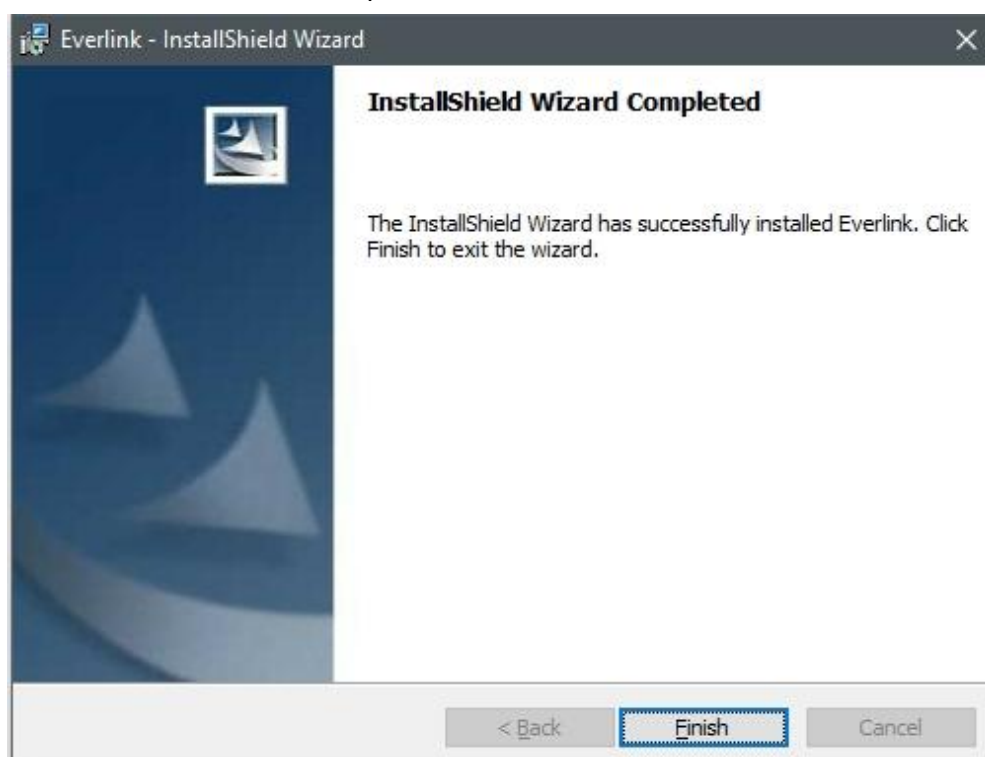


The screenshot shows the 'Setup Type' screen of the 'Everlink - InstallShield Wizard'. The window title is 'Everlink - InstallShield Wizard'. The main heading is 'Setup Type' with the instruction 'Choose the setup type that best suits your needs.' Below this, there is a section 'Please select a setup type.' with two radio button options: 'Complete' (which is selected) and 'Custom'. Each option has an icon of a computer with a red 'X' and a description: 'Complete' says 'All program features will be installed. (Requires the most disk space.)' and 'Custom' says 'Choose which program features you want installed and where they will be installed. Recommended for advanced users.' At the bottom, there is a status bar with 'InstallShield' and three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

5. Click "Install" will start to install Everlink.

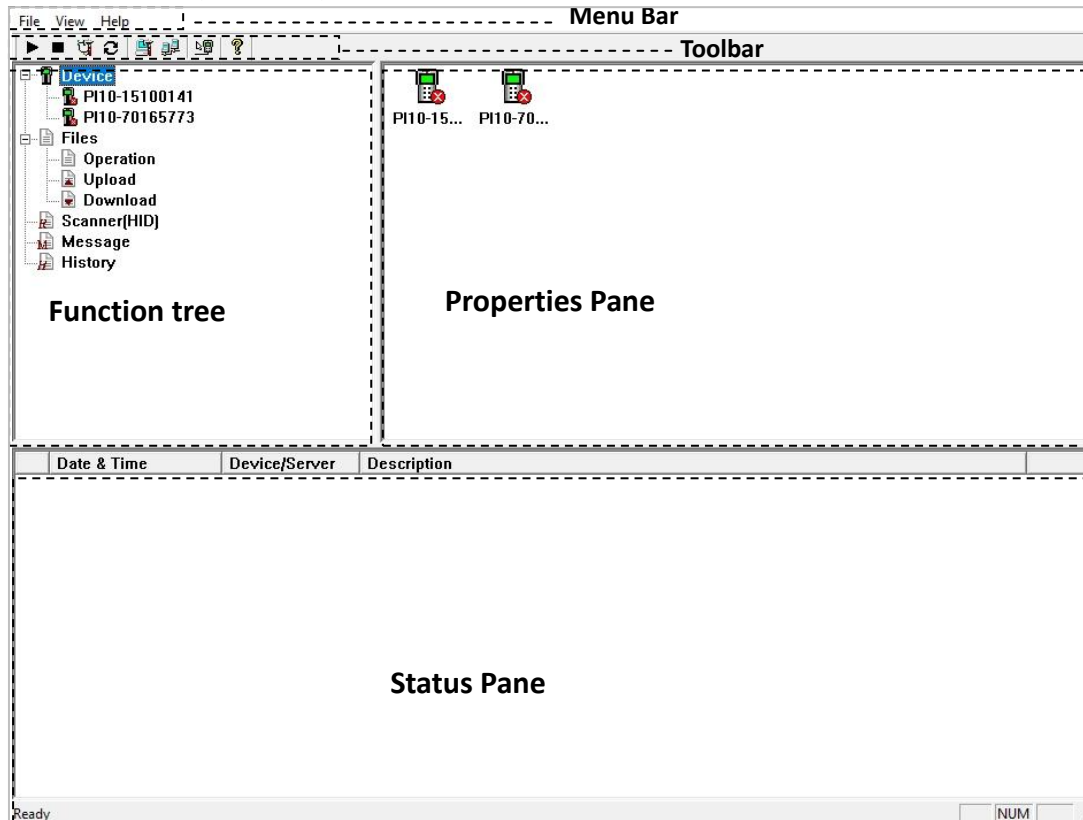


6. After installation is complete, click "Finish".



1.2. Work area

Run Everlink in your computer. There are five area in window.



- **Menu Bar** It includes basic program menus.
- **Toolbar** Toolbar offers a shortcut for communication server or device.
- **Function tree** Everlink function tree.
- **Properties Pane** Display Everlink function properties.
- **Status Pane** Display information about Device and server.

Menu Bar

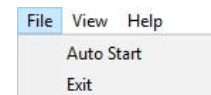
Menu Bar lets you control basic functions in Everlink.



File

Auto Start: automatically run Everlink when windows ready.

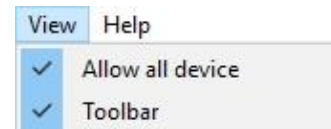
Exit: Close Everlink.



View

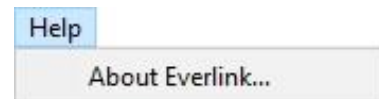
Allow all device: Display all device or not.

Toolbar: Display Toolbar or not.



Help

About Everlink: Display Everlink version.



Tool Bar

Toolbar include most of the communication function.



Start connections to device.



Stop connections to device.



Setup device communication port



refresh device communication port



Setup serve communication port



Stop/start communication server



Setup collect data mode for Scanner(HID)



About

Setting pane



- ① **Device:** Display device status.
- ② **Files:** Offering data transform, upload and download function.
- ③ **Scanner(HID) :** Offering a direct way to receive data from device to Everlink.
- ④ **Message:** Enable to send or receive message from device or ControlCenter.
- ⑤ **History:** Offering search and save function from status pane.

Status pane

| ① | ② | ③ | ④ |
|---|---------------------|---------------|---|
| | Date & Time | Device/Server | Description |
| | 2016-08-23 10:03:24 | Device | PC connecting... |
| | 2016-08-23 10:03:25 | Device | Device PI10-10000002 connection |
| | 2016-08-23 10:03:38 | Device | [2016-08-23 10:10:03] PI10-10000002 scan data : 4901991570014 |
| | 2016-08-23 10:06:31 | Device | [2016-08-23 10:12:55] PI10-10000002 scan data : 4901991570014 |
| | 2016-08-23 10:06:42 | Device | [2016-08-23 10:13:06] PI10-10000002 scan data : 4901991570014 |
| | 2016-08-23 10:06:48 | Device | [2016-08-23 10:13:12] PI10-10000002 scan data : 4901991570014 |
| | 2016-08-23 10:09:45 | Device | PC disconnect all device |

- ① **Image Level :** Errors () , Warnings() or Informations ()
- ② **Date & Time :** Information prompt time.
- ③ **Device/Server :** Information from Device to Everlink or Control Center to Everlink.
- ④ **Description :** Display detail information

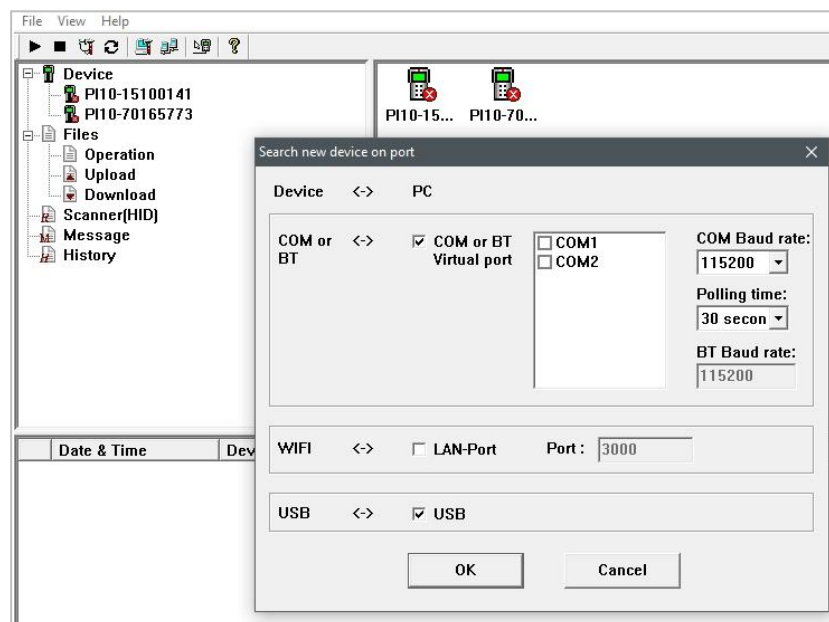
2. Getting start

2.1. Link to PI series

There are COM, BT, WIFI and USB to start a link to PI series. Choose a way to start linking.

PI-1X10 USB, COM

PI-1X30 USB, COM, Bluetooth, WiFi



3 Steps to start a linked PI device


- Step 1. Make sure linking environment is ready to use.
- Step 2. In PI series, choose a way in Remote Link page and press connect.
- Step 3. In Everlink Toolbar, Check “Comm setting”, make sure the link way is selected and setting is right. Click “start connection to device”

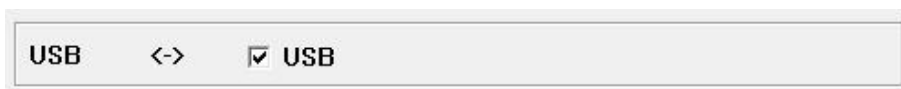


Note Once your device leave “<Remote link>” page. The link will be disconnected.

Start a link to new PI device

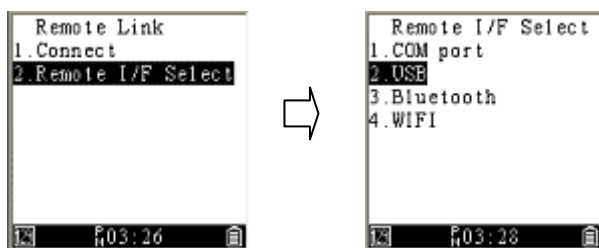
● **USB**

Step 1. Click “Comm setting”  in Everlink toolbar. Check USB connection way is selected.

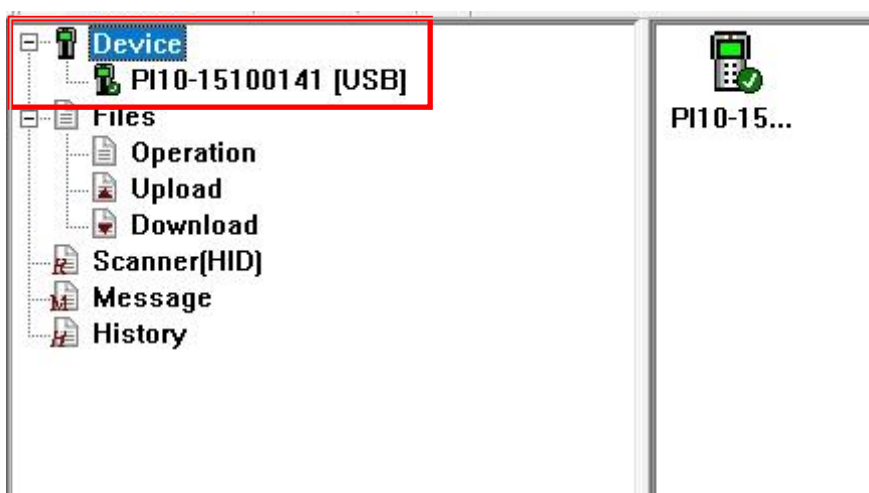


Step 2. Click “Comm start”  in toolbar for device to connect.

Step 3. Adjust PI series in Remote Link page and choose USB. In Remote Link page, move cursor to **1. Connect** then press ENT to < Remote Link > page.



Step 4. If you are successfully connected, “Device” in setting pane will display model number and connection way.



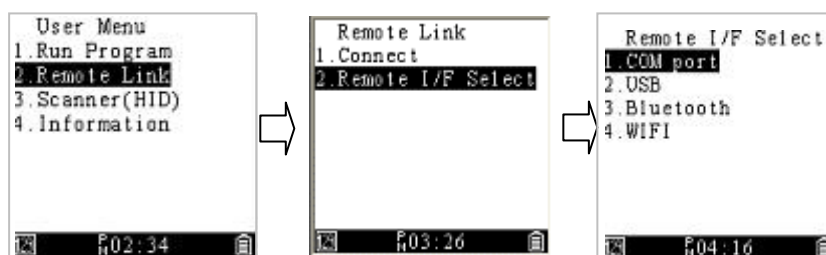
● COM

Step 1. Plug RS-232 to PC and the other side to PI series. Check Com port and Baud rate.

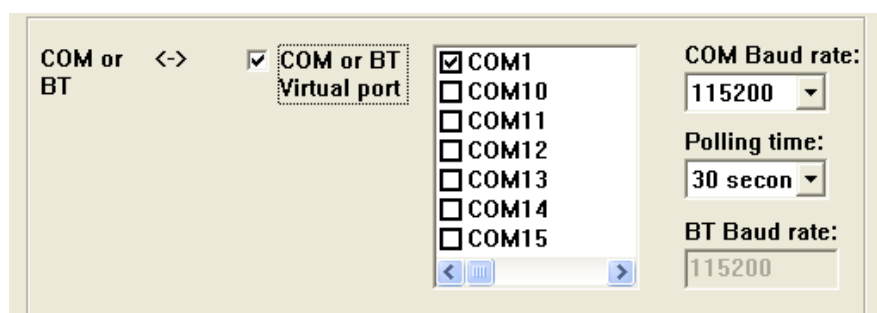


Note RS-232 do not have charge ability unless you plug a power supply line.

Step 2. Press power button to open PI series. Move PI series cursor to **2**. **Remote Link-> 2. Remote I/F Select -> 1. COM port** to open COM port function. Back to "Remote Link" page, move cursor to **1. Connect** then press ENT to < Remote Link > page.




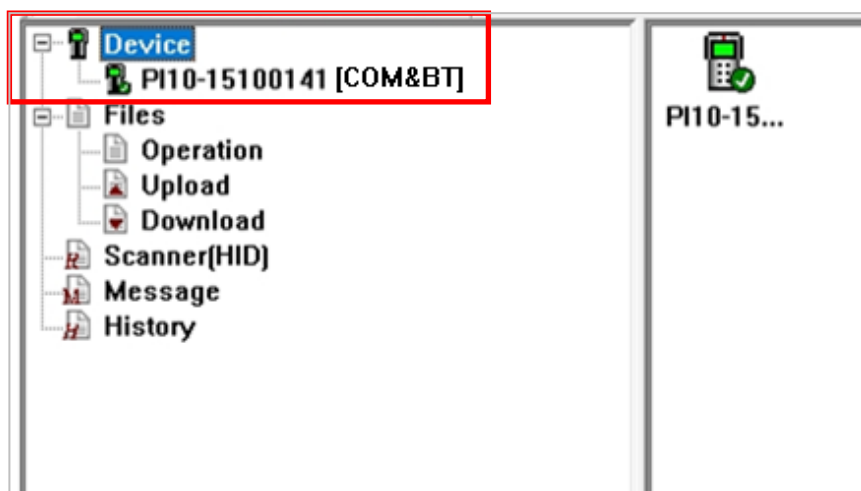
Step 3. Click "Comm setting" in toolbar to open device setting. Choose the same **COM** port and **COM Baud rate** as you PC. Click OK.



COM Baud rate: Set consistent baud rate between device and PC.

Polling time: Select polling time. Everlink will poll PI series in this period.

Step 4. Click  button. If you are successfully connected, “Device” in setting pane will display model number and connection way.

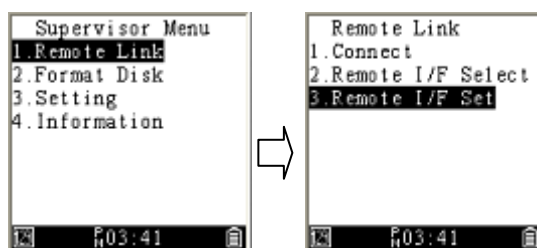


● Bluetooth



Important Bluetooth only support serial port profile(SPP) mode to emulate com port. Argox highly recommend use Bluetooth dongle driver instead of windows driver to start Bluetooth connection.

- Step 1. Plug your Bluetooth dongle to PC and install driver. Check the Bluetooth ID and setting.
- Step 2. Press "1"+"3"+"0"+"Power" to go to Supervisor Menu. Default password is "00000". Move PI series curse to **1.Remote Link -> 3.Remote I/F Set -> 2.Bluetooth -> 1. Bluetooth setting-> 6.Set peer device-> 1.Set by search**. Select your Bluetooth ID.





Note If you want to choose 2.Set by keyin, please refer to PI series user's manual to see more specific definition.

Step 3. Go back to Remote Link page. Move curse to **2.Remote I/F Select -> 3. Bluetooth**. In Remote Link page, move cursor to **1. Connect** then press ENT to < Remote Link > page.

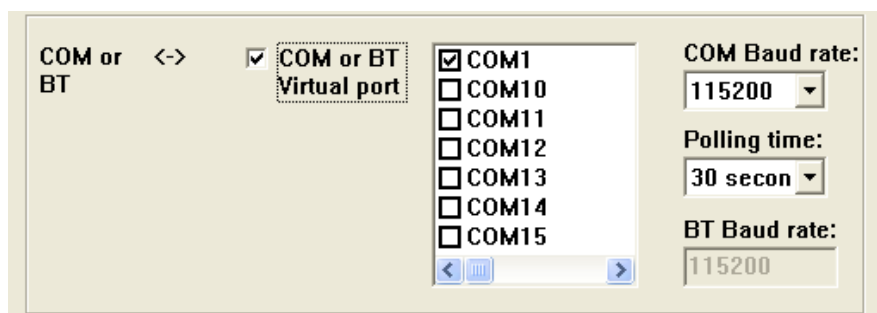
Step 4. After PI series link to Bluetooth dongle, open the dongle driver to check virtual COM port and other information.




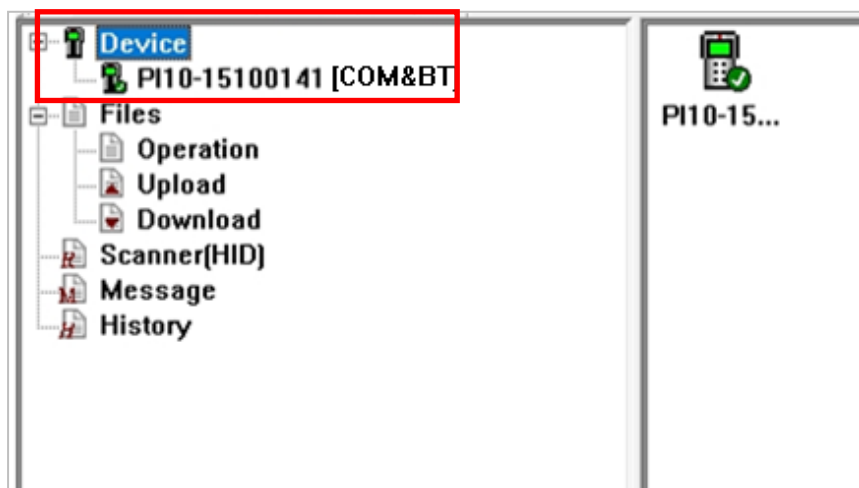
Step 5. Click "Comm setting" in toolbar. Choose the COM and Baud rate then click OK.

COM Baud rate : Set consistent baud rate between device and PC.

Polling time : Select polling time. Everlink will poll PI series in this period.





Step 6. Click  button. If you are successfully connected, "Device" in setting pane which will display model number and connection way.



● WIFI

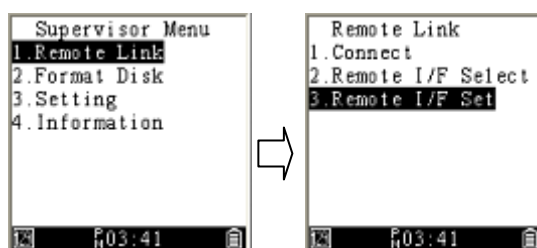


Important Make sure the wireless access point which is linked with PI series is in the same domain network with Everlink PC. The recommend WIFI signal strength is higher -70 dBm.

- Step 1. Click “Comm setting”  in Everlink toolbar. Select WIFI and check port is unique(Default 3000). Click  button to wait device to connect.



- Step 2. Get AP SSID and password then check PC IP address in your network properties.
- Step 3. Press “1”+”3”+”0”+”Power” to go to Supervisor Menu. Default password is “00000”. Move PI series curse to **1.Remote Link -> 3.Remote I/F Set -> 3.WIFI -> 1. Setting-> 1.WIFI SSID -> 1.Set by search**. Select your WIFI SSID and enter password.

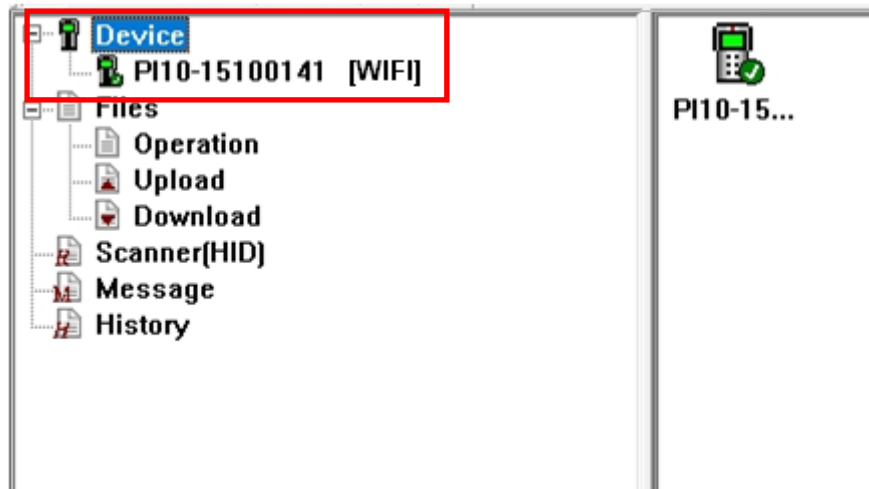


Note If you want to choose 2.Set by keyin, please refer to PI series user’s manual to see more specific definition.


- Step 4. Back to Setting page. Move to **3. Connect setting**. Enter IP address from PC and port(default is 3000).
- Step 5. Go back to Remote Link page. Move curse to **2.Remote I/F Select -> 4. WIFI**. In Remote Link page, move curser to **1. Connect** then press ENT

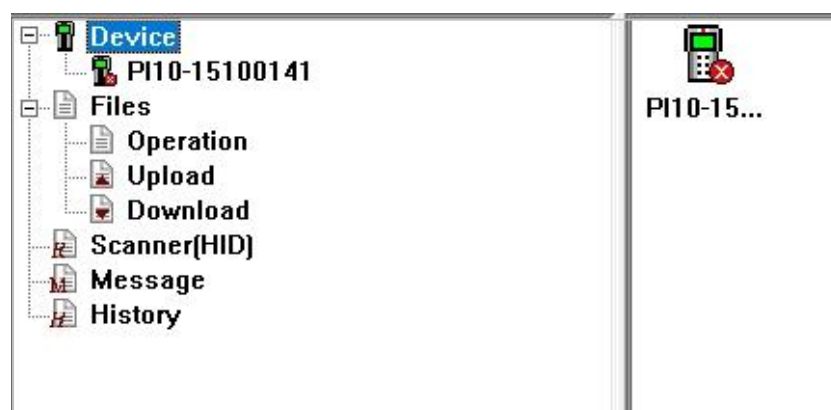
to < Remote Link > page.


- Step 6. In Everlink, “Device” in setting pane will display model number and connection way If device is successfully connected.

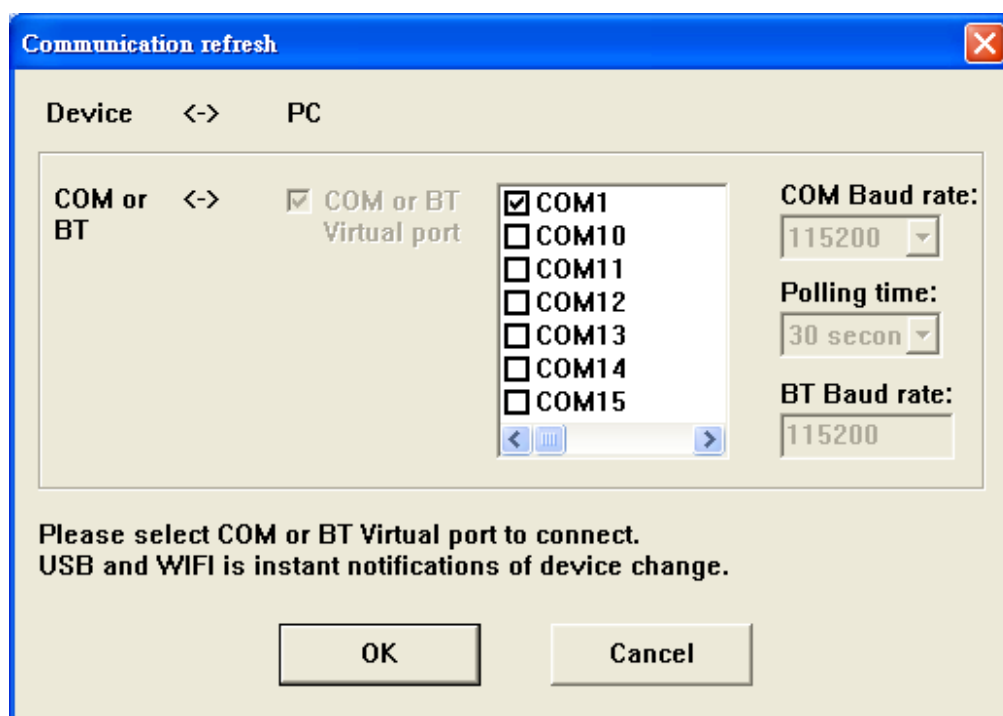


Stop and Refresh

Press “Comm stop”  button in toolbar to disconnect all device




Press “Comm refresh”  button in toolbar when device connects with COM and BT to Everlink. USB and WIFI connection is automatically refresh.

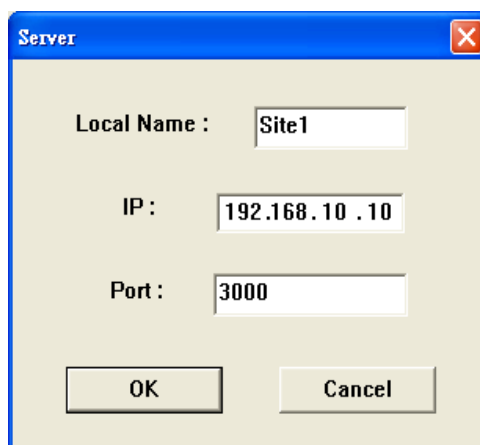


2.2. Link to Server

Everlink can set a connection to ControlCenter

LINK to ControlCenter

1. Click “Server setting”  button to set up.



Local Name : Set PC name will display in Controlcenter.

IP : IP address from ControlCenter.

Port : Port form Controlcenter.

2. Click “Server commun”  to link ControlCenter.



Note

Make sure ControlCenter press “start” before you press “Server commun”.

3.Feature

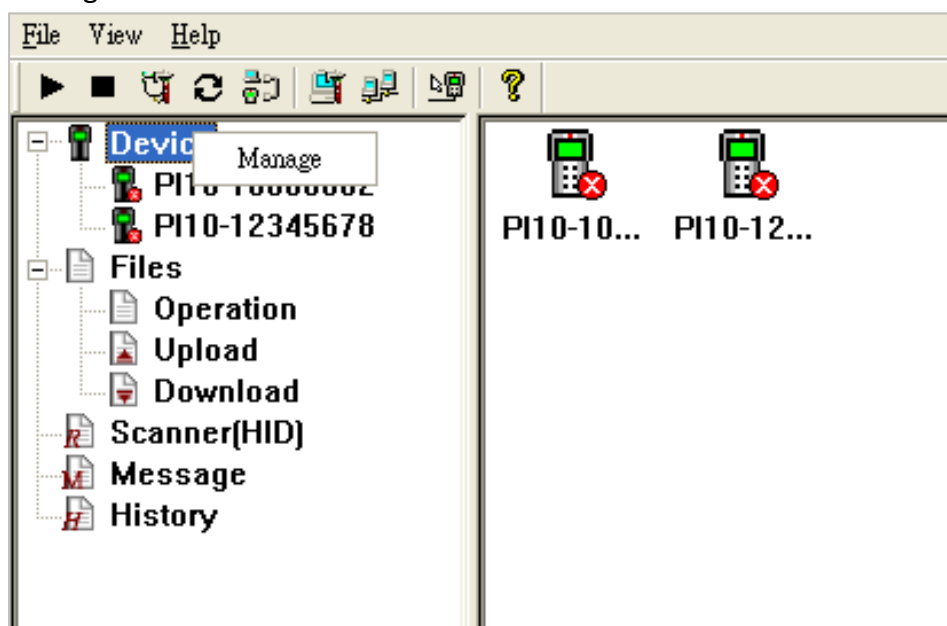
3.1. Device

Left click “Device”, it display all of device which used to connect. There are three different icon at right bottom in device image.

- “√”: device connected
- “x” : device disconnected
- “!” : update notifications



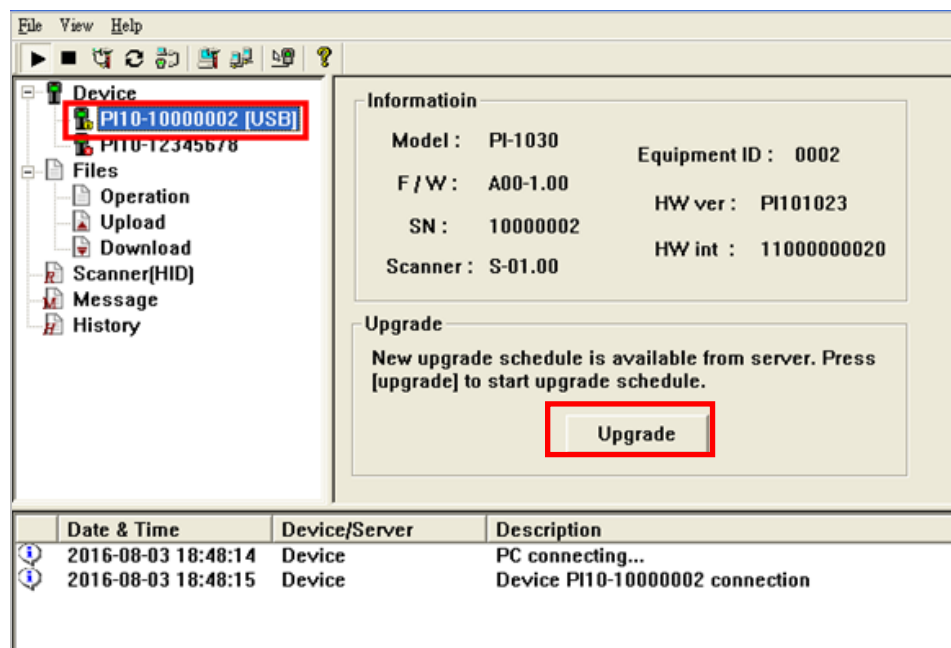
If “View”→“[Allow all device](#)” is canceled, right click “Device” will show Manage function.



Tick box in front of PI series in Device Manage window to manage device. If you have some devices which are broken or failed, you can also use this function.



Click each of device will show the detail information. Click upgrade button if server deploy upgrade function.

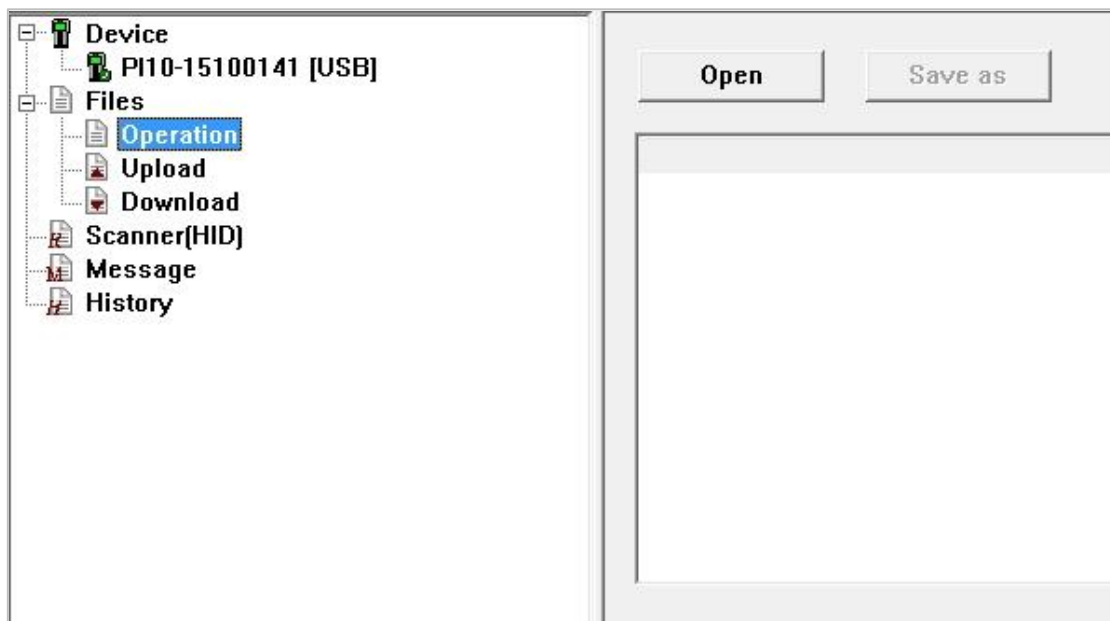


3.2. Files

Files provide Operation, upload and download function. **Operation** can help you transfer your .txt or .dat data to another format. **Upload** can transmit file from device to computer. **Download** can transmit file from computer to device.

Transfer format

1. Click "**Operation**" and Click "**Open**" button



Note

Open : File extension allow *.txt and *.dat

Save as : File extension allow *.txt, *.dat, *.csv, *.xls and *.xml.

- Click **"Browse"** to choose your data file. In **"Format"** block, fill **"Number of fields"** and select **"Length"** or **"Delimiter"** depends on data. After you finish setting, Click **"OK"**.

Open file

File Name : C:\input4.txt **Browse**

Format

Number of fields : 4

☐ Length

☒ Delimiter 44 ,

| Field | Length | | |
|-------|--------|--|--|
| 1 | 1 | | |
| 2 | 1 | | |
| 3 | 1 | | |
| 4 | 1 | | |

OK Cancel



Note

Length : 20 field supported maximum. Beware the "Space" !

- It will display the content as below. Click **"Save as"** to transfer format.

| Open | | Save as | |
|-------|------------|----------------|-------|
| File1 | File2 | File3 | File4 |
| 1000 | CPU | Socket 370 | 3600 |
| 1001 | RAM | DDR | 1200 |
| 1002 | MainBoard | A4 Size | 2500 |
| 1003 | Hard Disk | IDE | 2300 |
| 1004 | CD-ROM | USB | 1400 |
| 1005 | Mouse | USB | 600 |
| 1006 | Keyboard | USB | 550 |
| 1007 | Moniter | LCD | 8900 |
| 1008 | VGA Card | AGP | 1100 |
| 1009 | Sound Card | PCI | 600 |

4. Click “**Browse**” button to select which file you want to save.
 - Choose “Delimiter” when you select .txt or .dat file extension.
 - Fill “Sheet name” when you select .xls file extension.
 - Choose a encoding when you select .xml file extension.

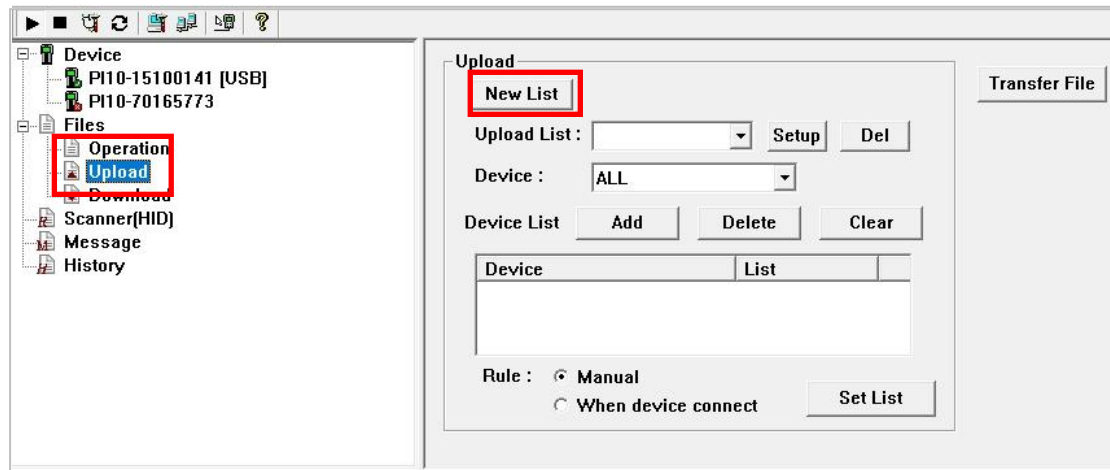


Note

“Sheet name” must over 2 English or numeric characters.
.xml file can not support Chinese.

Upload file to computer

1. Click “**Upload**” and click “**New List**” button to create a new list



2. Select “**Tradition**” or “**Project**” type (Project type is used for Skywalker SDK software.) and follow the setting below.

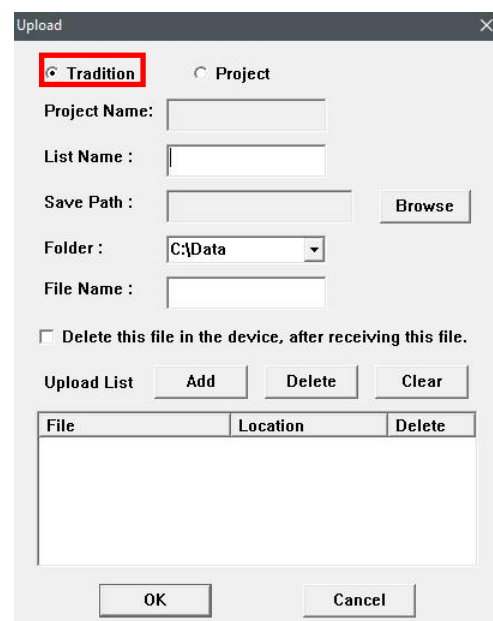
- Tradition type

List Name : Name a Upload list name.

Save Path : Click “Browse” button to select path in PC.

Folder : Type or choose path in device.

File Name : Name the file.



- Project type (Skywalker SDK only)

Project Name : Click “...” button to select project in device.

List Name : Name a Upload list name.

Save Path : Click “Browse” button to select path in PC.

3. Click “Add” button to add upload file. Click “OK” to save upload list.

| File | Location | Delete |
|------------------|-------------|--------|
| C:\Data\128K.txt | C:\Everlink | No |



Note

“Delete” button can delete file in Upload List. “Clear” button can delete all file in Upload List.

4. After setting upload list, select Device you want to upload. Click **“Add”** button to add device in Device List.

The screenshot shows the 'Upload' configuration window. It includes a 'New List' button, an 'Upload List' dropdown set to 'up', and 'Setup' and 'Del' buttons. The 'Device' dropdown is set to 'ALL'. Below this is the 'Device List' section with 'Add', 'Delete', and 'Clear' buttons. The 'Add' button is highlighted with a red box. At the bottom, there is a 'Rule' section with radio buttons for 'Manual' (selected) and 'When device connect', and a 'Set List' button. A 'Transfer File' button is located on the right side of the window.

5. Choose **“Manual”** (Upload immediately when click **“Transfer File”**) or **“When device connect”** (Automatically upload) and click **“Set List”** button to save upload setting. Click **“Transfer File”** to upload immediately.

The screenshot shows the 'Upload' configuration window after adding a device. The 'Device List' section now contains a table with one entry: 'PI10-15100141' in the 'Device' column and 'up' in the 'List' column. The 'Set List' button at the bottom is highlighted with a red box. The 'Rule' section remains the same, with 'Manual' selected. The 'Transfer File' button is still on the right.

| Device | List |
|---------------|------|
| PI10-15100141 | up |

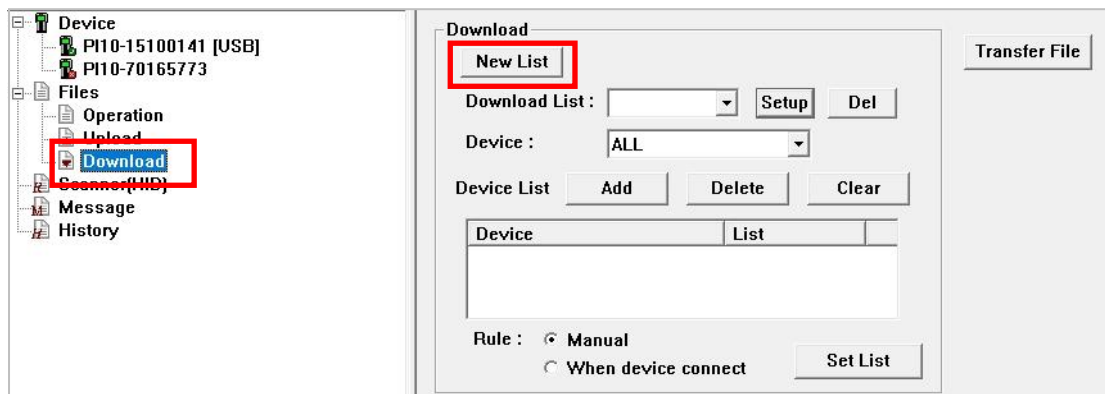


Note

“Delete” button can delete device in Device List. **“Clear”** button can delete all device in Device List.

Download file to PI series

1. Click “**Download**” and “**New List**” to create a download list.



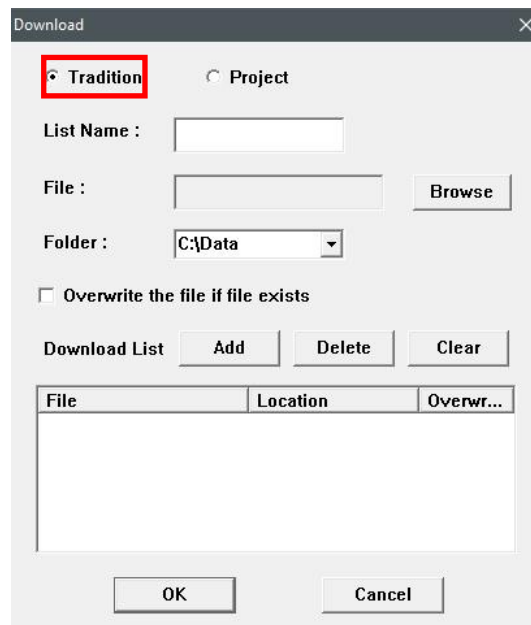
2. Select “**Tradition**” or “**Project**” type (Project type is used for Skywalker SDK software.). Follow the setting below.

- Tradition type

List Name : Name a download list name.

File : Click “**Browse**” button to select file in PC.
(* .txt, * .dat, * .bas, * .cft or All file)

Folder : Enter or choose path in device to save file.



- Project type (Skywalker SDK only)

List Name : Name a download list.

File : Click “**Browse**” button to select project file from Skywalker in PC. (*.prj)

3. Click “**Add**” button to add download file. Click “**OK**” to save download list. “**Delete**” button can delete file in Download List. “**Clear**” button can delete all file in Download List.



Note

In tradition mode, you can select overwrite or not.

4. After setting Download List, select Device you want to download. Click **"Add"** button file in Device List.

Download

New List

Download List : down Setup Del

Device : ALL

Device List Add Delete Clear

| Device | List |
|--------|------|
|--------|------|

Rule : ☒ Manual ☐ When device connect Set List

Transfer File



Note

"Delete" button can delete device in Device List. **"Clear"** button can clear all device in Download List.

5. Choose **"Manual"** (Download immediately when click **"Transfer File"**) or **"When device connect"** (Automatically Download) and click **"Set List"** button to save download setting. Click **"Transfer File"** to download immediately.

Download

New List

Download List : down Setup Del

Device : ALL

Device List Add Delete Clear

| Device | List |
|---------------|------|
| PI10-15100141 | down |

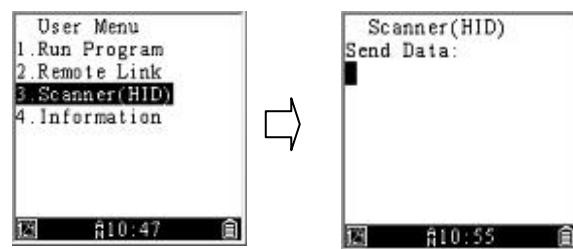
Rule : ☒ Manual ☐ When device connect Set List

Transfer File

4. Utility

4.1. Scanner(HID)

Scanner(HID) can receive device data when device select option 3 “Scanner(HID)” mode as below. Push Scan button on PI series to read barcode. Information data will automatically upload to Everlink

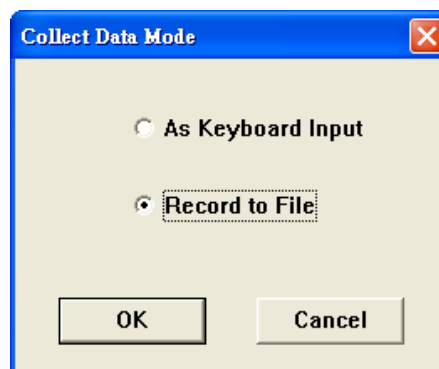


Collected data

1. Click “**Collect data mode**” button in toolbar.



2. Choose “**Record to File**” and click “**OK**”



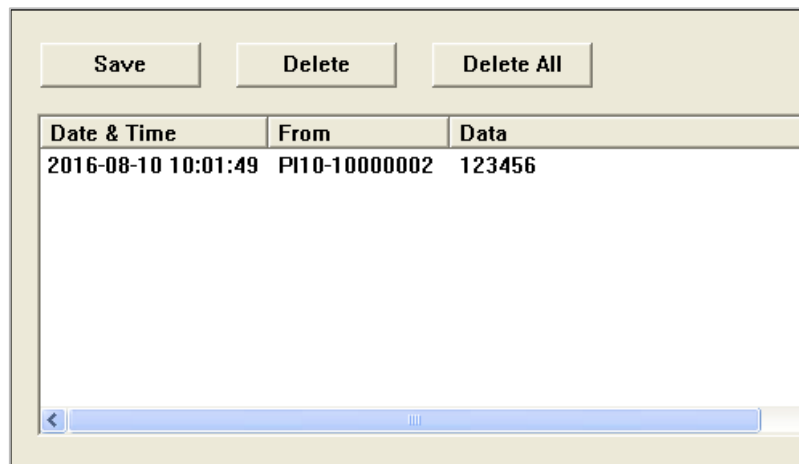
As Keyboard Input: Data will send to location from cursor.

Record to File: Data will send to Everlink to progress.

3. Click Scanner(HID) in setting pane.



4. Click “**Save**” button to save data. “**Delete**” button can delete a single data you select. “**Delete All**” can remove all data.



4.2. Message

Everlink can send or receive messages from PI Series or ControlCenter.

- PI Series can press “Fn”+ “^” key to enter message menu.

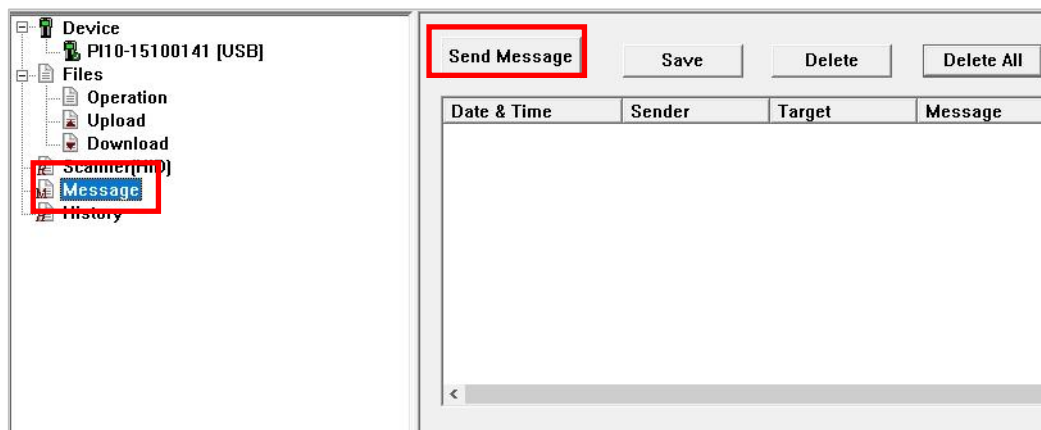


- ControlCenter has the similar design as Everlink.

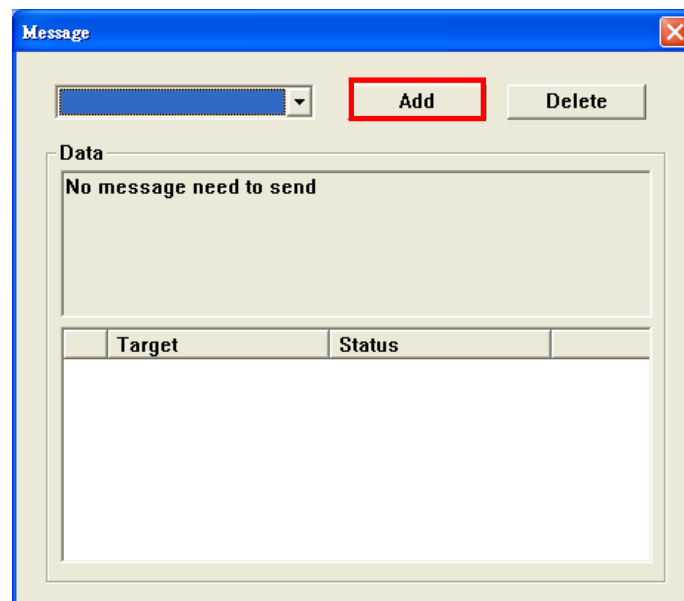
For more information, please refer to PI Series manual or ControCenter manual.

Send message to device

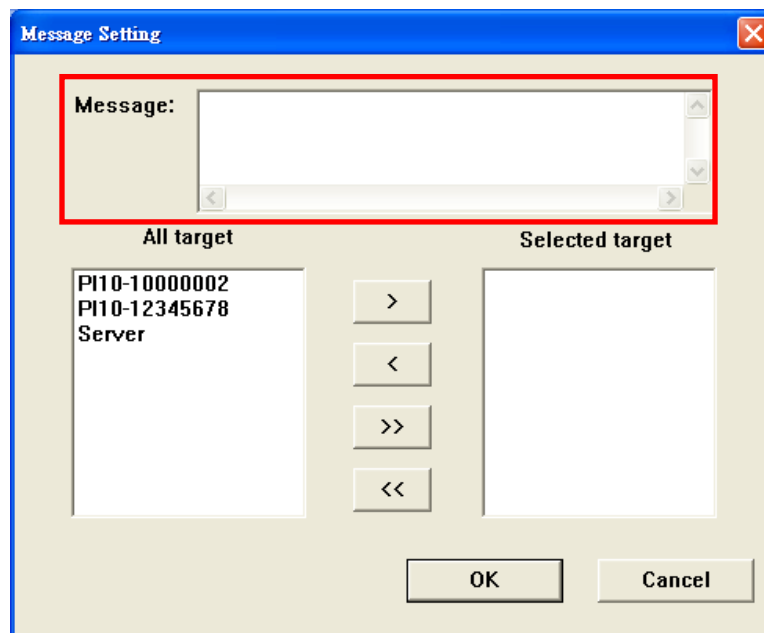
1. Click Message in setting pane and click “**Send Message**” button.



- Click **"Add"** button to add a new message.

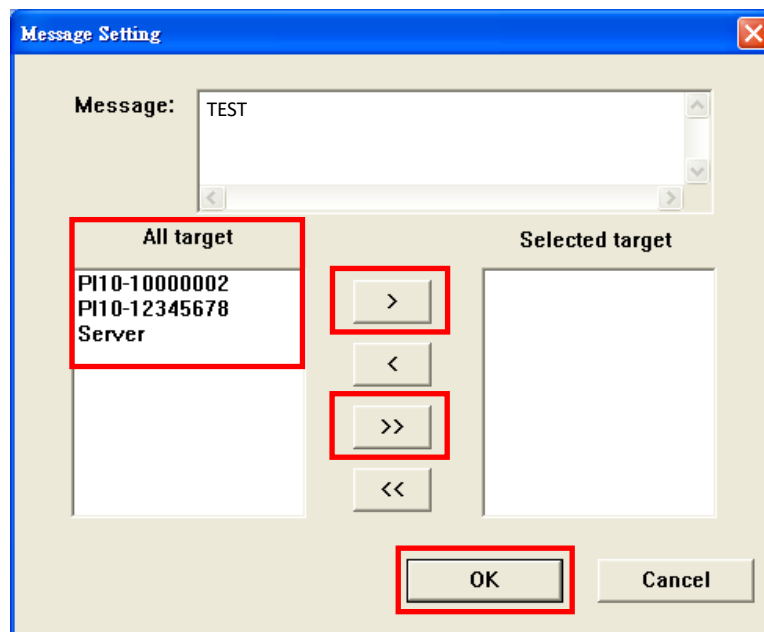


- Enter message in Message box.

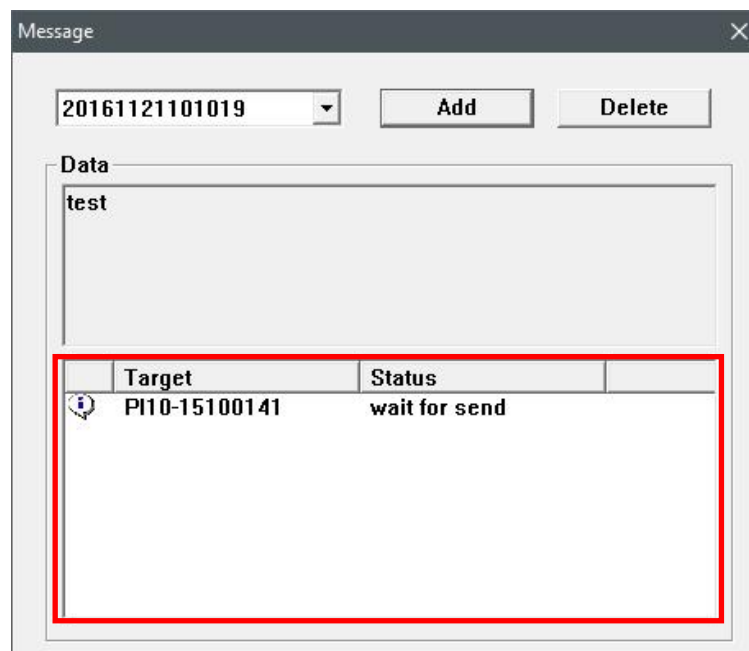


Note Everlink will send message every 70 seconds. If Message failed over 3 times. It will stop sending. Each message maximum is 100 bytes

4. Select target in the left under “All target”. Click “>” and “>>” to move item to the right under “Selected target”. Click “OK” button to send message.



5. If target device is online, message will send immediately. Otherwise, unsend message status will show as below.



Note: Switch combo box and click “Delete” button can cancel unsend message.

Message Record

Message records display as below. “**Save**” button can save all the history you sent. “**Delete**” and “**Delete All**” button can remove the message record.

| Send Message | Save | Delete | Delete All |
|---------------------|---------------|---------------|----------------------------|
| Date & Time | Sender | Target | Message |
| 2016-08-05 09:39:14 | Everlink | PI10-10000002 | Please inventory warehouse |
| 2016-08-05 09:48:56 | PI10-10000002 | Everlink | OK,inventory complete |
| 2016-08-05 09:45:58 | Everlink | PI10-10000002 | Please update firmware |
| 2016-08-05 09:54:33 | PI10-10000002 | Everlink | OK, update complete |
| 2016-08-04 09:38:22 | Server | Everlink | AAABBB |
| 2016-08-10 09:54:00 | Everlink | PI10-10000002 | GGGHHH |
| 2016-08-10 09:58:13 | Server | Everlink | DDDDCC |

4.3. History

Searching History Data

1. Click **"History"** in setting pane to manage history data.

The screenshot shows the 'History' settings interface. On the left, a tree view lists 'Device', 'Files', 'Operation', 'Upload', 'Download', 'Scanner(HID)', 'Message', and 'History' (which is selected and highlighted with a red box). The right pane is titled 'History Type' and contains three radio buttons: 'All' (selected), 'Device', and 'Server'. Below this is the 'History Level' section with three checked checkboxes: 'Errors', 'Warnings', and 'Informations'. The 'History Date' section contains two rows of date pickers for 'Start' and 'to'. The 'Start' row shows '2016' for year, '11' for month, and '21' for date. The 'to' row shows '2016' for year, '11' for month, and '21' for date. At the bottom are three buttons: 'Search', 'Save to file', and 'Clear'.

2. Select Type, Level and Date, then click **"Search"** button. Status pane will display as your setting. **"Save to file"** button will save data which is display in status pane. **"Clear"** button will clean all information.

| | Date & Time | Device/Server | Description |
|---|---------------------|---------------|---|
| ? | 2016-08-23 10:03:24 | Device | PC connecting... |
| ? | 2016-08-23 10:03:25 | Device | Device PI10-10000002 connection |
| ? | 2016-08-23 10:03:38 | Device | [2016-08-23 10:10:03] PI10-10000002 scan data : 4901991570014 |
| ? | 2016-08-23 10:06:31 | Device | [2016-08-23 10:12:55] PI10-10000002 scan data : 4901991570014 |
| ? | 2016-08-23 10:06:42 | Device | [2016-08-23 10:13:06] PI10-10000002 scan data : 4901991570014 |
| ? | 2016-08-23 10:06:48 | Device | [2016-08-23 10:13:12] PI10-10000002 scan data : 4901991570014 |
| ? | 2016-08-23 10:09:45 | Device | PC disconnect all device |

APPENDIX

How to set up *EverLink* with *Everlink.ini*

1. *EverLink* set up procedure

- a. *Everlink.ini* is an optional user's configuration file for *EverLink*.
- b. Please copy *Everlink.ini* into specified folder before executing *Everlink.exe*.
 Windows 32bit folder path: C:\Program Files\Argox\Everlink;
 Windows 64bit folder path: C:\Program Files (x86)\Argox\Everlink.
- c. When *EverLink* is launching, it will detect if *Everlink.ini* exists in above specified folder. If *Everlink.ini* exists, *EverLink* will follow *Everlink.ini* for software configuration. If not, user's configuration will be skipped.

2. The setting file *Everlink.ini* description

- a. Each section of *Everlink.ini* is optional.
- b. Connect to server - *ControlCenter*
[SER_CONNECT]
Auto Connect=1
Interval Time=30
 - **Auto Connect** is auto re-try to connect server, 1 is auto re-try, 0 is connect manually.
 - **Interval Time** is re-try time interval. The range is between 1~99999999 second. If it is set by 0, using system default 60 sec.
- c. Where is the server- *ControlCenter* IP address and port
[SERVER]
Local Name=MySiteName
IP Address=192.168.0.1
Port =5000
 - **Local Name** means 'A name for local site PC name', the name will be shown on server end. It lets *ControlCenter*'s administrator easily know who you are. This name is user defined, it accepts maximum 10 characters in English only.
 - **IP Address** is server – *ControlCenter*'s IP address with IPv4 format, ex:

192.168.0.1.

- **Port** is server – *ControlCenter's* communication port. The *ControlCenter* port number must same with *Everlink*, range 1~65535.
- In case, the network is behind firewall, please ask network administrator for an authorized port.

d. Connect to device

[DEV_CONNECT]

Auto Connect=1

- **Auto Connect** is auto polling device, 1 is auto polling, 0 is connect manually.

e. Auto-launch when PC boot up

[MENU_BAR]

Auto Start=1

- **Auto Start** set to 1 is auto-launch, 0 is none.

3. Example file of *Everlink.ini*

***Everlink.ini* example:**

[SER_CONNECT]

Auto Connect=1

Interval Time=60

[SERVER]

Local Name=Argox

IP Address=192.168.0.174

Port=5000

[DEV_CONNECT]

Auto Connect=1

[MENU_BAR]

Auto Start=1