

# **8PI Control Panel**

# **Software Installation Guide**



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#### References

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#### History

Version	Date	Description
1.00	24/08/11	Initial revision





### 1 Installing 8PI Control Panel

#### 1.1 System requirements

- PC installed with Microsoft Windows XP, Windows VISTA or Windows 7 32-bit or 64-bit versions.
- 100 MB of free space.
- One free USB 2.0 port.

#### 1.2 Installation Wizard

- Download 8PI Control Panel from http://www.byteparadigm.com/download-16.html
- If a previous version of 8PI Control Panel was installed, it is better to uninstall it. For this, go to Start Menu and locate your 8PI Control Panel menu:



- Double-click on archive to start the installation wizard.
- At the wizard welcome screen, click on Next>





- The next screen lets you choose the destination directory on your PC hard drive. Default is: 'c:\Program Files\Byte Paradigm'.

Select the destination directory and click on Next>

📴 Setup - 8PI Control Panel	
Select Destination Location Where should 8PI Control Panel be installed?	
Setup will install 8PI Control Panel into the following folder.	
To continue, click Next. If you would like to select a different folder, click i	Browse.
C:\Program Files\Byte Paradigm	Browse
At least 78,8 MB of free disk space is required.	
< Back Next >	Cancel

The next screen lets you choose the 'Start Menu' folder where the 8PI Control Panel shortcuts will be installed. The folder 'Byte Paradigm' is chosen by default.
 Select the destination folder and click on Next>

العالي Setup - 8PI Control Panel	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start	Menu folder.
To continue, dick Next. If you would like to select a different folder, dic	k Browse.
Byte Paradigm	Browse
< Back Next >	Cancel



- Finally, click in 'Install' at the 'Ready to install' screen.

j <sup>EJ</sup> Setup - 8PI Control Panel	×
Ready to Install Setup is now ready to begin installing 8PI Control Panel on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\Byte Paradigm Start Menu folder: Byte Paradigm	*
< >>	*
< <u>B</u> ack Install (	Cancel

- Once setup is complete, the final screen pops up. Click on 'Finish' to finish the software installation.





#### 1.3 Installing the USB driver

#### 1.3.1 Default procedure

- Connect your GP or Xpress series device to one free USB port of your PC with the provided cable.
- When prompted, locate and install the USB driver:
  - 32-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x86
  - 64-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x64

#### 1.3.2 Install driver manually

In some cases, it might be that Windows does not prompt for driver installation when you plug your GP or Xpress Series device.

#### 1.3.2.1 Installing driver in Windows 7

Here is how to install the driver manually:

- Start Windows Device Manager and connect your GP or Xpress series device to a free USB port.



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- Right click on 'GP-22050' and click on 'Update Driver Software...'
  - Other devices
     Other d
- Select 'Browse my computer for driver software'

<u>ه</u>	Update Driver Software - GP-22050	
Hov	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation	
•	settings. B <u>r</u> owse my computer for driver software Locate and install driver software manually.	
		Cancel

- Select 'Let me pick from a list of device drivers on my computer' and click on 'Next'.

	×
🚱 🗕 Update Driver Software - GP-22050	
Browse for driver software on your computer	
Search for driver software in this location:	
Browse	
Let me pick from a list of device drivers on my computer	
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
Next	Cancel



- Click on 'Next'

	<b>X</b>
Update Driver Software - GP-22050	
Select your device's type from the list below.	
Common <u>h</u> ardware types:	
Show All Devices	*
🟺 61883 Device Class	=
AVC Devices	
Patteries	
Biometric Devices	
😵 Bluetooth Radios	
Normal Computer	
🖵 Digital Media Devices	
Disk drives	
Solution and a second s	
BVD/CD-ROM drives	
Eloppy disk drives	-
	Next Cancel

- Click on 'Have Disk...'

	×
G 🗓 Update Driver Software - GP-22050	
Select the device driver you want to install for this har Select the manufacturer and model of your hardware device disk that contains the driver you want to install, click Have Di	dware. and then click Next. If you have a isk.
✓ Show <u>c</u> ompatible hardware           Model           Byte Paradigm GP-22050	
This driver is not digitally signed!     Tell me why driver signing is important	<u>H</u> ave Disk
	Next Cancel



- Browse to the driver location and select the .inf file in this directory, then click on 'Open':
  - 32-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x86
  - 64-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x64



- Click on 'OK'.
- At the next screen, select the driver and click on 'Next'.

G I Update Driver Software - GP-22050	
Select the device driver you want to install for this hardware.	
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.	
✓ Show compatible hardware	
Model	
Byte Paradigm USB x86 Driver	
Ihis driver is not digitally signed! <u>Have Disk</u> <u>Tell me why driver signing is important</u>	
Next Cancel	]

- A warning appears. Click on 'Install this driver software anyway'.





- Once the driver is installed, the following screen appears (case of 32 bit driver installed):



- The driver is now properly installed for your device, as shown in the Device Manager.





#### 1.3.2.2 Installing driver manually in Windows XP



- Right click on 'USB Device' and select 'Update Driver'.





- Select 'Install from a list of specific location (Advanced)' and click on 'Next>'.

Hardware Update Wizard	
	Welcome to the Hardware Update Wizard
	This wizard helps you install software for:
	USB Device
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	<ul> <li>Install the software automatically (Recommended)</li> <li>Install from a list or specific location (Advanced)</li> </ul>
	Click Next to continue.
	< <u>B</u> ack <u>N</u> ext > Cancel

- Select 'Don't search. I will choose the driver to install.' and click on 'Next'.

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
✓ Include this location in the search:
C:\Program Files\Byte Paradigm\8PIControlPanel\dri 💽 🛛 B <u>r</u> owse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> ack <u>N</u> ext > Cancel



- Click on 'Have Disk', then on 'Browse'



- In the browsing windows, select the driver location according to the OS used, and open the .inf file in this directory (click on 'Open' > 'Ok' > :
  - 32-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x86
  - 64-bit operating system, the driver is located in: <Installation root>\8PIControlPanel\drivers\x64

Locate File		?	X
Look jn: ն	x86 💽 🕑 🌶	📂 🎹 <del>-</del>	
BpUsb86.in	f i		
File <u>n</u> ame:	BpUsb86.inf	<u>O</u> pen	
Files of type:	Setup Information (*.inf)	Cancel	

Click on 'Next > '





- The driver is now properly installed for your device, as shown in the Device Manager (case of a 32-bit OS).



Click on 'Finish'.





### 1.4 Installing the License File and starting up 8PI Control Panel

To start 8PI Control Panel, you need the request the license file of your device.

- Follow the instructions from page: <u>http://www.byteparadigm.com/download-16.html</u> to request your license from Byte Paradigm. You'll receive one file named 'license.txt'.
- Copy this license file into the 8PI Control Panel software installation directory. The default directories are:
   32-bit OS : C:\Program Files\Byte Paradigm\8PIControlPanel
   64-bit OS : C:\Program Files (x86)\Byte Paradigm\8PIControlPanel
- To start up 8PI Control Panel:
  1) ALWAYS connect your device to the USB port first
  2) Click on the 8PI Control Panel icon



 At start-up, the 'Smart Router' application pops up. This side application manages the USB connection with your device and is also used to check your license file. Normally, your device should be listed in SmrtRtr.exe application and the 8PI Control Panel modes of operation that are enabled for your device should be marked with 'YES'.

Dev Name	ID	Serial Number	Clients	Status	ADWG	Analyser
Device 1	0	03010922004	0	Configure device		
•						
Image Name	ID	Dev ID Statu	s			

Dev Name	ID	Serial Nur	nber	Clients	Status	ADWG	Analyser
Device 1	0	03010922	2004	8	Ready	yes	yes
•							
Image Name	ID	Dev ID	Status				
Client 0	0	0	Idle				
Client 1	1	0	Idle				1
Client 2	2	0	Idle				
Client 3	3	0	Idle				
Client 4	4	0	Idle				
Client 4	-	0	T-II-				•



8PI Control Panel - Dev 0, SerNum 03010922004 - [/ File Edit View Tools Help	Arbitrary Wave 1]		
<ul> <li> Arbitrary Wave 1 Analyser 1 Jtag 1 SPI1 </li> <li> Configuration Operation Control Lines Configuration &amp; Mapping External trig. Edge trig. Auto re-arm Pin number 21 20 19 18 17 16 Trigger mask. 21 20 19 18 17 16 Trigger pattern 21 20 19 18 17 16 Trigger pattern 21 20 19 18 17 16 Crtmask. 21 20 19 18 17 16 Crt mask. 20 20 20 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21</li></ul>	Derating Clock Requested 1.000000 MHz Synthesised 1.000000 MHz Vinternal clock Force PLL disabling Generate output clock Clock ratio 1 Clock Freq. 1.000000 MHz Hole clock	4 Þ X	New Page Application Selection Arbitrary Wave Add a new page sending ar aribratry wave to the curren notebook. Analyser Add a new page sampling arbitrary signals to the current notebook. Jtag Add a new page handling t JTAG protocol to the currer notebook.
Data Bus Configuration & Mapping         Pin number       15       14       13       12       11       10       9       8       7         Data mask       Image: Imag	Inverted clock		Add a new page handling to SPI protocol to the current notebook. IZC Add a new page handling to IZC protocol to the current notebook.
Transcript		Ŧ×	
ady			NUM

 8PI Control Panel window opens. Please refer to 8PI Control Panel user's guide (check our general documentation page here: <u>http://www.byteparadigm.com/documentation-15.html</u>)



2 8PI Control Panel - Dev 0, SerNum 03010922004	- 0 <b>- X</b>
Eile Edit View Iools Help	
Transcript	Ψ×
Ready	NUM

If your 8PI Control Panel window is blank (see above) or if all modes of operation are marked with 'no' in SmrtRtr.exe, your license file is improperly installed. Please try again. If the problem persists, please check Byte Paradigm's knowledge base to troubleshoot it : <u>www.byteparadigm.com/kb</u>

Ultimately, contact Byte Paradigm.