Typically when plugging in a HMI into the computer for the first time (via USB) or a new HMI series, the PC will attempt to install a driver for it. Often times the PC will not know where to go and retrieve the driver so it will install a PNX Bulk Device driver, which is incorrect.



If the developer attempts to download the program to the HMI (via USB) without updating the driver, they will receive a USB handle failed to open error. This error message indicates that the HMI is not powered on or the wrong driver was installed.



To load the proper driver for the HMI we must first find the HMI on the Device Manager. Since we already know that the wrong driver was loaded we must now look for a LibUsb-Win32 Devices drop down menu, which should contain a PNX Bulk Device. Typically the wrong driver that is loaded for the HMI is the PNX Bulk Device but if no such driver exists, we need to get a tad creative. If the PNX Bulk Device driver does not exist: unplug the HMI unit, wait a few seconds and plug the HMI back in, while keeping your eye on the Device Manager to locate the device that has just been added. This new device will be the driver that must be updated.



Once the faulty HMI driver is located we can continue to load the proper Kinco HMI USB Driver. Right click on the PNX Bulk Device and select Update Driver Software.





On this screen you are given the option to either let Windows search for the correct driver (which it proved it could not do the first time) or to browse your computer for the correct driver. Select Browse my computer for driver software.

۰ 🗋	Jpdate Driver Software - PNX Bulk Device	×
Но	w do you want to search for driver software?	
•	<u>Search automatically for updated driver software</u> 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

Here we want to select Let me pick from a list of device drivers on my computer.

Brows	e for driver software on your computer
Search f	or driver software in this location:
D:	▼ B <u>r</u> owse
☑ Inclu	de subfolders
	et me pick from a list of device drivers on my computer his list will show installed driver software compatible with the device, and all driver ftware in the same category as the device.

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If the Kinco HMI USB Driver has been loaded before, this screen will typically list it and if so we can simply select it and click next. If we have never loaded the Kinco HMI USB Driver than we must select Have Disk.

G	Update Driver Software - PNX Bulk Device	×
	elect 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 <u>c</u> ompatible hardware Model 	
	<u>N</u> ext Cance	

Select the Browse button to locate the Kinco HMI USB Driver.



Typically the Kinco HMIware software installs directly onto the C: drive. So if the default settings were kept the bulkusb.inf driver should have the following file path, C:\Kinco\Kinco HMIware v2.2\driver. Once you have navigated to the driver directory select the bulkusb.inf file and click open.

Look in:	🌗 driver	-	G 🤣 📂 💷 🕈			
(Pa)	Name	*	Date modified	Туре	Size	
24	鷆 amd64		B/11/2014 2:14 PM	File folder		
cent Places	i386		B/11/2014 2:14 PM	File folder		
	🍌 ia64		8/11/2014 2:14 PM	File folder		
· · · · ·	📰 bulkusb.inf		5/31/2012 11:00 AM	Setup Information	3 KB	
Libraries Libraries Computer Computer Network						
	File game:	bulkusb inf			-	Open

Verify that the proper directory is listed and select OK.



If the bulkusb.inf file was selected correctly in the previous step the following screen should list Kinco HMI USB. Select the Kinco HMI USB driver and click Next.

0	Update Driver Software - PNX Bulk Device
	Select the device driver you want to install for this hardware. Image: 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 <u>c</u> ompatible hardware Model Kinco HMI USB
	This driver is digitally signed. Have Disk Tell me why driver signing is important
	<u>N</u> ext Cancel

Driver is installing.

	Update Driver S	oftware - PNX	Bulk Device		
Ins	talling drive	er software			

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The proper Kinco HMI USB driver is now installed.

	×
🕞 📱 Update Driver Software - Kinco HMI USB	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
_	
	<u>Close</u>

The Device Manager is now updated with the Kinco HMI USB driver.



USB Root Hub



In the Kinco HMIware Software go to Tools→Download and click the Download button on the Download screen. Below is the screen indicating the program is downloading to the HMI, rather than a HMI USB handle failed error screen.

KHDownload [56%]	C The Print	
Vector font file downloading		
		Cancel

Program was successfully downloaded.





PROGRAM DOWNLOAD VIA USB

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In the Kinco HMIware Software go to Tools→Download Way.

🔆 (C:\Kinco\Kinco HMIware v2.2\project\Empty\Empty.wpj - [HMI0.whe]																	
: <mark>(</mark>)	File(<u>F</u>)	Edit(E)	View(<u>V</u>)	Scr	een(<u>P</u>)	Dr	aw(D) (Comp	oone	nts(I) [Too	ols(<u>T</u>)	Option(O)	Window()	W) Help(J	<u>H)</u>
1	💕 🗖	X D	B G (9 0	0	酋		8	8	6	0	Ŧ	0	Comp	oile(<u>C</u>)		Ctrl+F7	
: <u>+</u>	⊡ #	I I	4 m	01 -0[-	8	н :	I E		6 9	6 9			Ēđ	Comp	oile All(<u>R</u>)			1
: 🕞	1 9 .84	B d	<i>1</i> 🖪 🖥			ስ ቸ	ነ 🗛		-		[X]	0	X	Clear	Build Result()	Ctrl+E	tatus
:								1	T	R	= :		•	Down	nload(<u>D</u>)		Ctrl+D	
Gran	h elemen	twindow							-			÷	2	Down	nLoad Way(<u>A</u>)	Alt+F7	111
Orap	n elemen	onnector											~	Offlin	e Simulation(E)	F5	
		HMI										·		Indire	ect Online Sim	nulation(<u>I</u>)	Shift+F5	
		PLC										ľ	1	Direct	t Online Simu	lation(<u>N</u>)	Ctrl+F5	
	F	PLC Parts										i		Syste	m Manager(@	i)		
		0												HMI \	/ersion Manag	ger(<u>V</u>)		
1	200	9												Recip	e Editor(<u>K</u>)			
Bi	t State etting	Bit Sta Lame	te											Uploa	d Manager(<u>B</u>)		
	-											·		Down	Load Manage	er(<u>H</u>)		
4	🤜											·		Uploa	d Init Windo	w(<u>L</u>)		
Bi	t State	Direct	t 🛓									i		Down	nload Init Win	dow(<u>]</u>)		
3	witch	windo	vv											Uploa	d Project(<u>P</u>)			
					_	_		_						Deco	mpile Manage	r(<u>O</u>)		

From the Download Device drop down menu select the USB option and click OK.

Project Settings Option	
HMI HMI0	Compile Compress Bitmap (Size > 1024 Bytes)
	Download
	Download Device USB -
	Com PC Serial No. USB
	IP Address
	Port 21845
	Edit Option
	X: 20 🕈 Y: 20 🕈
	OK Cancel



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Compile the project for program download by going to Tools→Compile

o 🗘	🔅 C:\Kinco\Kinco HMIware v2.2\project\Empty\Empty.wpj - [HMI0.whe]																
0	File(E)	Edit(E)	View(<u>v</u>)	Scre	en(<u>P</u>)	Dr	aw(D) (Comp	one	nts(<u>I</u>)	Т	ols(<u>T</u>) Option(<u>O)</u> Window(W) Help(<u>H)</u>
1	6	X 🗅	6	8	6	9	鐏		-	8	Гġ,	0	. E *C	Compile(<u>C</u>)		Ctrl+F7	
1	⊟ <u>#</u>	IJ. ₽	4 TT	001	0]]	\$	н :	I E	19	6 9	, q		E.	Compile All(<u>R</u>)			10
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		. <u> </u>							<u>التار</u> ب	7	B	= =	1	Download(<u>D</u>)		Ctrl+D	
Gran	h eleme	nt window		×			_			-	2	_	. 72	DownLoad Wa	y(<u>A</u>)	Alt+F7	1.1
orap	ii cicilic	Connector		~	- ·									Offline Simulat	ion(<u>F</u>)	F5	
		HMI												Indirect Online	Simulation(I)	Shift+F5	
		PLC												Direct Online S	imulation(<u>N</u>)	Ctrl+F5	
		PLC Parts												System Manag	er <u>(G</u>)		- 84
		0												HMI Version M	anager(<u>V</u>)		- 84
		9												Recipe Editor(<u>()</u>		
Br	t State etting	Bit Stat Lamp	te		- ·									Upload Manage	er(<u>B</u>)		- 84
	-				· ·									DownLoad Mar	nager(<u>H</u>)		- 84
<														Upload Init Wi	ndow(<u>L</u>)		
Bi	t State	Direct	:	E										Download Init	Window(<u>]</u>)		
5	witch	windo	vv											Upload Project	(<u>P</u>)		
4														Decompile Mar	ager(<u>O</u>)		
	ditter to	A destated	12										1000				_

The compilation was a success!

Message window	х
WindowASCII Keyboard	*
WindowFile List Window	
WindowPassword Window	
WindowConfirm Action Window	
WindowHEX Keyboard	
WindowLogin Window	
Word Library	
Graphics Library	
Generate(Arial)font file.font_1.ttf	=
Macrocode	
Connecting	
Compilation Done! Warning 0 Error 0!	
	-

PROGRAM DOWNLOAD VIA USB

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To download the program go to Tools \rightarrow Download.

Ci\Kinco\Kinco HMIware v2.2\pro	oject\Empty\Empty.wpj - [HM]0.whe "]	The second state and state	
: 🌄 File(<u>F)</u> Edit(<u>E)</u> View(<u>V</u>)	$\label{eq:creen} \begin{split} Screen(\underline{P}) Draw(\underline{D}) Components(\underline{I}) \end{split}$	Tools(<u>T</u>) Option(<u>C</u>) Window(<u>W</u>) Help(<u>H</u>)	
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Graph alement window X		😨 DownLoad Way(<u>A</u>) Alt I F7	-
Caraedaa		0ffine Simulation(L) 15	
HMI		🐻 Indirect Online Simulation(1) Shift (F5	
PLC		Direct Online Simulation(N) Otrl+F5	
PLC Parts		System Manager(G)	
🔅 🔿 🕒		HMI Version Manager(V)	
		Recipe Editor(K)	
Setting Lamp		Upload Manager(B)	
E		DownLoad Manager(H)	
S 📩		Upload Init Window(L)	
Bit State Direct		Download Init Window(1)	
		Upload Project(P)	
6) ¹¹		▶ Decompile Manager(<u>O</u>)	

Click the Download button to begin program download.

📥 KHDownload				
Select HMI:				Select Section:
HMI Station	HMI Inform	ation		🗹 Data file
HMIO				🔲 Recipe file
				LOGO file
				Clear recipe
				Clear history event data
· ·	III		Þ	Clear history record data
				Clear data report
Download File Pathy	c:\kinco\kinco.hr	miware v2 2\nroiect\emntu\emntu	nka	Clear ERW data
Download File Fath.		unitate (E.E. frequencing) (conf.)		Clear FRW data
			Download to USB1	
				Download to USB2
Communication Type:	USB port			Download to SD
IP: NULL		PORT: NULL		☐ Timeout 5000 Ms (1 second =1000 Ms)
COM: NULL		BPS: NULL		Do w nload
				Exit

PROGRAM DOWNLOAD VIA USB

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Program is downloading to the HMI.

KHDownload [56%]	Charlen Mariana
Vector font file downloading	
	Cancel

Program was successfully downloaded to the HMI.





Open the Windows Command Prompt Type ipconfig and press enter This will show the network settings of you adapter cards We are concerned with the Subnet Mask and Default Gateway

an Administrator: C:\Windows\system32\cmd.exe	
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	<u>^</u>
C:\Users\rafaelmc>ipconfig	
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix .: AnaheimAutomation.local Link-local IPv6 Address : fe80::2c89:cd59:5d9c:399c×10 IPv4 Address : 192.168.1.38 Subnet Mask : 255.255.25.0 Default Gateway : 192.168.1.252	
Ethernet adapter VMware Network Adapter VMnet1:	
Connection-specific DNS Suffix .: Link-local IPv6 Address : fe80::a4f0:a461:8f9c:e1e1×15 IPv4 Address : 192.168.160.1 Subnet Mask : 255.255.25 Default Gateway :	
Ethernet adapter UMware Network Adapter UMnet8:	-

Create a New Project

Call it what you like

Drag and Drop the HMI you are using into the configuration window





Double click the HMI Assign the HMI a unique IP Address Type in the Subnet Mask and Default Gateway we retrieved from the Windows Command Prompt

Secondy Leve	ls Setting	User Perm	issions	Setting	Historical Events Storage
Print Setting	CC	M0 Setting COM2 Setting		Extended Memory	
HMI	Task Bar	HMI Extend	led Attrib	outes	HMI System Information Tex
Subnet Mask	255	. 255 . 255 .	0	Open F	TP Password:
Subnet Mask	255	. 255 . 255 .	0	C Open F	TP Password:
Default Gatewa	ay 192	. 168 . 1 .	252	888888	

Drag and Drop an Ethernet Connection Click Add

Type in the unique IP Address you assigne the HMI in the IP Address field Leave the Port Num @ 2008





Click Save

Go to Tools-> Download Way

Make sure that USB is selected from the Download Device Dropdown

HMIO	Complee
	Download
	Download Device USB 👻
	PC Serial No. COM1 -
	IP Address 192 . 168 . 1 . 153
	Port 21845
	Edit Option Screen Grid Space
	X: 20 文 Y: 20 🜩

Compile Project Tools->Compile All Download Tools->Download

Select HMI:		Select Section:
HMI Station	HMI Information	🗹 Data file
HMIO		Recipe file
		LOGO file
		Clear recipe
		Clear history event data
•		Clear history record data
		Clear data report
Download File Path:	c:\kinco\kinco hmiware v2.2\proiect\ethernet	🔲 Clear ERW data
Download Flict det.	communication customer\ethernet communication customer.pkg	Clear FRW data
		Download to USB1
		Download to USB2
Communication Trees	USB port	Download to SD
Communication Type:		Timeout 5000 Ms
Communication Type.		
IP: NULL	PORT: NULL	(1 second =1000 Ms)
IP: NULL	PORT: NULL	(1 second =1000 Ms)
IP: NULL COM: NULL	PORT: NULL BPS: NULL	(1 second =1000 Ms)

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We download via USB the first time around to write the Network Parameters into the HMI. We will now change the Download Way to Ethernet Tools->Download Way

Select Ethernet from the Download Device dropdown

Project Settings Option	
HMI HMI0	Compile Compress Bitmap (Size > 1024 Bytes)
	Download
	Download Device Ethernet 💌
	PC Serial No. COM1 👻
	IP Address 192 . 168 . 1 . 153
	Port 21845
	Edit Option
	X: 20 🜩 Y: 20 🜩
	OK Cancel

Compile Project Tools->Compile All Download Project Tools->Download

📥 KHDownload				
Select HMI:		Select Section:		
HMI Station	HMI Information	🔽 Data file		
HMIO		Recipe file		
		LOGO file		
		Clear recipe		
		Clear history event data		
	K			
Download File Path:	Download File Path: c:\kinco\kinco hmiware v2.2\project\ethernet			
Dominious Pilo Pauli	communication customer\ethernet communication customer.pkg	Clear FRW data		
		Download to USB1		
		Download to USB2		
Communication Type:	NetWork	Download to SD		
102 100 1 152	219/5	☐ Timeout 500 Ms		
IP: 132.168.1.153	PORT: 21845	(1 second =1000 Ms)		
COM: NULL	BPS: NULL	Download		
		Exit		

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After you Click download you should see the KH Download Window appear and the progress bar moving. Eventually the Download Success window will appear, just press OK. We are all Done!



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