

## Converting Universal Ethernet Projects to EZ3 Series HMIs

The Universal Ethernet driver for our EZPanelEnhanced series has been replaced with individual PLC specific Ethernet drivers. The drivers supported by Universal Ethernet are as follows:

- Modbus TCP/IP
- ControlLogix Ethernet/IP
- PLC5E (DF1 over Ethernet/IP)
- SLC5/05 (DF1 over Ethernet/IP)
- GE SRTP

For the new EZ3 Series unit, the Modbus TCP/IP and GE SRTP are selectable as individual drivers to replace the Universal Ethernet. Control/Compact Logix, SLC505/Micrologix, and PLC5E are grouped together into the Ethernet/IP driver.

The first step to converting the project is to open the project by clicking edit program offline, next select the project in the project name box.

Project Information	×
EZ Serie	EZSeries Touch Panel Programming Software Version 6.2 EZAutomation : Phone: 1-877-774-EASY WWW.ezautomation.net
SELECT ACTION	ielected Action : Edit OFF-LINE Write Later ENTER PROJECT INFORMATION Project Actaion : VAvgapp1 Profiles\inelson\EZAutomation\ Browse
Read Program from Panel and Edit OFF-LINE	Project Name : Universal Ethernet.ezp  Firmware Revision Start Editing Screen Number 1  Name New Screen
Edit Program ON-LINE	Select EZSeries Panel Panel Family EZPanelEnhanced
PC to Panel Connection  Serial COM1  CoM1  Code Host	Select Model ALL, 10" Color 640x480, EZPanel Enhanced EZx- refers to EZP- as well as EZ- part numbers PLC
<ul> <li>(127.0.0.1 / 10001 )</li> <li>Ethernet</li> <li>Ethernet (EzEther)</li> </ul>	PLC Manufacturer : PLC Model and Protocol : Ethernet Drivers  View/Edit PLC Com Setup View/Edit PLC Com Setup
Modem	Ok Help Clear Exit



Once the project has been selected you will see the PLC information at the bottom of the project information. Click the "View/Edit PLC Com Setup".

- Select EZSeri - Panel Family	eries Panel Size	
EZPanelE	Enhanced	6" 🔘 8" 💿 10" 🔘 15"
Select Model	ALL, 10" Color 640x480, EZPanel Enhanced EZx- refers to EZP- as well as EZ- part numbers	•
PLC PLC Manul Ethernet D	ufacturer : PLC Model and Protocol : Drivers	▼ View/Edit PLC Com Setup

This screen displays the Ethernet Attributes of the TouchPanel at top, as well as the PLC ID, PLC Type, PLC IP Address, and slot location assigned in the project for the PLC. Take note of this information, you will need to re-enter it later in this process.

hernet Attribu	tes				×
PLC Revision N	umber :	G			
Timeout Time( (tenths of a se	(1-255) .cond)	30			
Poll Time (tenths of a :	: (0-255) second)	0			
IP Add	ress	192 .	168 . 1 .	5	
Subnet M	lask	255 .	255 . 255 .	0	
Gateway Add	Gateway Address 0.0.0.0				
PLC Details Maximum nu PLC Id	umber of I PLC Tu	PLCs: 64	Number o	if PLCs defined	: 1
1	SLC5/0	5 (DF1	192.168.1.10	0	
Add / Edi	t	<u>D</u> elet	te	Set Byte	Order



Once you have taken note of the information in the previous step, begin changing the selections in the project information screen to the appropriate selections based on your panel family, size, and PLC.

For this example we will convert the Universal Ethernet project to a 10" EZ3 Series panel communicating to an Allen Bradley SLC 5/05. For this I have selected a panel family of EZ3 Series, size of 10", PLC Manufacturer of Ethernet Drivers, and Protocol of Ethernet/IP

Project Information	
EZ Seri ED Touch Pa	EZSeries Touch Panel Programming Software Version 6.2 EZAutomation : Phone: 1-877-774-EASY WWW.ezautomation.net
SELECT ACTION Edit Program OFF-LINE (Write to Panel Later) Read Program from	Selected Action : Edit OFF-LINE Write Later         ENTER PROJECT INFORMATION         Project Location :         \\Avgapp1\Profiles\inelson\EZAutomation\         Browse         Project Name :       Universal Ethernet.ezp         Start Editing Screen
Edit Program OFF-LINE	Number     I     Name     New Screen       Select EZSeries Panel     Panel Family     Size       EZ3 Series     Image: Arrow of the Streen     A''       Select Model     1011 Size
Serial COM1     Contact Contection     Serial COM1     Cocal Host     (127.0.0.1 / 10001 )     Ethernet     Ethernet     Ethernet (EzEther)	PLC PLC Manufacturer : PLC Model and Protocol : Ethernet Drivers  Ethernet/IP - Rev G / C View/Edit PLC Com Setup
Modem	<u>Qk</u> <u>H</u> elp <u>C</u> lear E <u>xit</u>

Once you have selected the appropriate configuration in the project information screen, return to the "View/Edit PLC Com Setup" screen.

You will now have to re-enter the IP address of the PLC, as well as select the correct PLC type (PLC type only applies to Ethernet/IP). Do this by clicking the "Add/Edit" button or double clicking on the grid

Ethernet Drivers	Ethernet/IP	Attributes			×
PLC Revision N	umber :	G			
Timeout Time  (tenths of a se Poll Time (tenths of a s	(1-255) 30 econd) (0-255) 0 second)				
PLC Details Maximum num	ber of PLCs:	4 N	lumber of PLC	is defined:	0
PLC Id	PLC Type	IP Address	Slot Loc		
<u>A</u> dd / Edi	t			<u>D</u> elet	e
ОК	]	Cancel		He	elp

In the dialog box that appears, select the appropriate PLC type and enter the IP address you noted down earlier in the process. Click Add PLC Details then close to finish.

Add PLC Details	X
PLC Id	1 •
PLC Type	SLC5/05 (DF1 over Ethernet)
IP Address	192 . 168 . 1 . 10
Controller Slot Location	0
Message Time Out (tenths of a second)	30
	Add PLC Details

The information you entered should now be displayed in the PLC details grid of the previous screen.

At this point in the process, you have completed the project conversion portion. You can press Ok to load into the project where you will be able to assign the IP address of the TouchPanel and load the project.

On the original Universal Ethernet unit being converted from, the Ethernet Attributes of the TouchPanel were stored in the "View/Edit PLC Com Setup" and assigned upon loading the project. With newer units like the EZ3 series we are converting to in this example, you must assign the TouchPanel Ethernet Attributes by going to **Setup > Ethernet Setup** shown below

EZSeries Touch Panel Editor - [Universal Ethernet.ezp - #1 Scr 1 - EZ3 Series Family]			
File Edit Screen Objects Draw Panel	Setup Remote Access Window Help		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tag Database         Tag Cross Reference         Tag Cross Reference By Screen         Read AVG Panel / PLC Tags         Export Tags         Import Tags         Alarm Database         Export Alarms         Import Alarms         Message Database         Export Messages         Import Messages         Import Messages         Image Library		
	Language Texts Panel Attributes Project Description Select PLC Upgrade Firmware Upgrade TouchPLCJr Boot Ethernet Setup Data Acquisition		

To assign the Ethernet Attributes you must be connected to the TouchPanel serially. In the Ethernet Setup screen click the "Configure Ethernet Attributes" check box and enter the information below. Once the correct addresses are entered, press "Set Ethernet Parameters". Upon power cycling your TouchPanel, the new Ethernet Attributes will take effect and be displayed while in the bootup process.

Ethernet Setup		
Configure Etherne	et Attributes	
IP Address Subnet Mask	192.168.1.5         255.255.255.0	
Gateway Set Eth	ernet Parameters	
ОК	Cancel Help	