

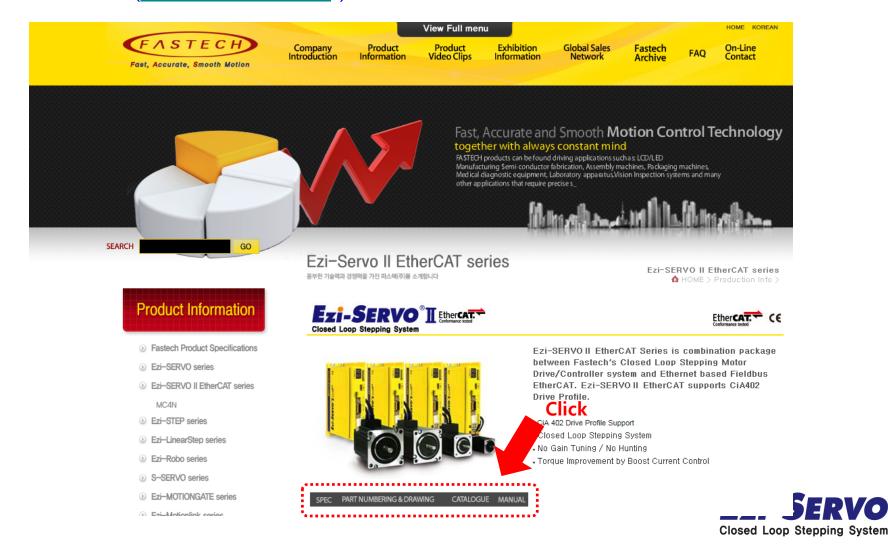
Ezi-SERVOII-EC Operation Manual < Parker 'PAC' Controller>





Ezi-SERVOII-EC Data Download [Manual]

□ Manual : Download the EtherCAT manual on FASTECH website (www.fastech.co.kr)



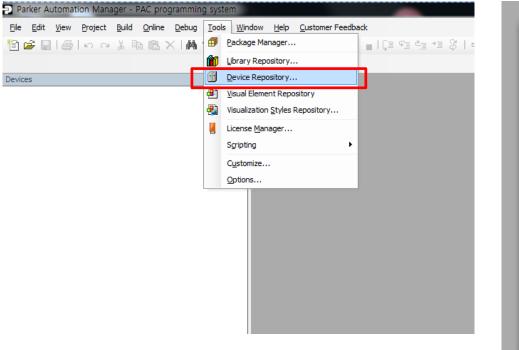


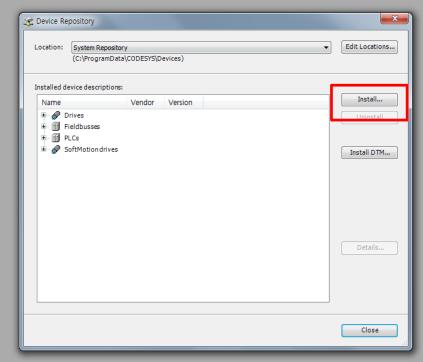
Launch the Parker Automation Manager Software





Click "Tools" and "Device Repository" and click Install







Click "FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_CSP.xml" and click "열기"

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Jaehak Documents Software WORK O.Netbase I.MultiNetwork 2.EtherCAT Ocuments Documents Ezi-SERVO EtherCAT Manual Manual_Ezi-SERVO2_EtherCAT Release trunk Bootloader Docs ESI	H	이름 FASTECH Ezi-SERVO2 EtherCAT.xml FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_CSP.xml FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_Cynamic.xml FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_Dynamic_(NI).xml FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_Updated.xml FASTECH_Ezi-SERVO2_EtherCAT_NoSlot_Updated.xml	수정한 날짜 2016-03-14 오후 3:31 2016-03-14 오후 3:31 2016-03-14 오후 3:31 2016-03-14 오후 3:31 2016-03-14 오후 3:31 2016-02-16 오후 2:28	유형 XML 문서 XML 문서 XML 문서 XML 문서 XML 문서 XML 문서	⊒7 184KB 170KB 170KB 168KB 169KB 174KB
Libraries	-				



• Then you can see XML file is saved as below

🧝 Device Re	pository					×	
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	:\Jaehak\WORK\2.E Device "Ezi-SERV			erCAT_NoSlot_C	SP.xml		
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						Close	Ezi-Servo
							Closed Loop Stepping System

You can check XML file path as below
 Fieldbusses – EtherCAT – Slave – Ezi-SERVO II EtherCAT

Service Repository	X	Device Repository	x
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Installed device descriptions:		Installed device descriptions:	
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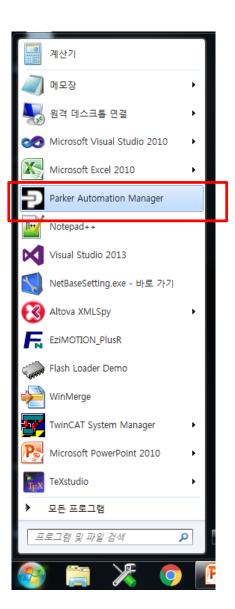


 You can see the detailed information of file when click "Details" as below

🧝 Device Re	pository	<u> </u>	
Location:	<all locations=""></all>	Edit Locations	
Installed d	evice descriptions: evice descriptions:	Install Uninstall Install DTM	General: Mame: Ezi-SERVO2 EtherCAT Vendor: FASTECH Groups: Slave Type: 65 ID: FA00000_000010020000001 Version: EtherCAT Slave imported from Slave XML: FASTECH_Ezi- SERVO2_EtherCAT_NOSIot_CSP.xml Device: Ezi-SERVO2 EtherCAT Image: Close
		Close	



Creating a new PAC project



Launch the Parker Automation Manager Software





Creating a new PAC project

Choose File – "New Project"

Choose "Standard project" and name your project. Click OK.

Par	ker Automation Manager - PA	programming system	
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	Open Project Ctrl+O		
	<u>C</u> lose Project	✓ ╀ X Categories: Templates:	
	Save Project Ctrl+S		
	Save Project As	Pump Empty project Standard Standard	
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	Print		
	Print Preview Page Setup		
Laborated and	Recent Projects		
	Exit Alt+F4	A project containing one device, one application, and an empty implementation for PLC_PRG	
		Name: Untitled4	
		Location: 🛛 ss\WPublic\WDocuments\WParker Hannifn\WParker Au <mark>romator manager \WP</mark> rojects 👻	
		Cancel	
1			



Creating a new PAC project

Choose the appropriate PAC320 device as below. Choose OK.

	You are abou objects withir	t to create a new standard project. This wizard will create the following n this project:
_	- A program P - A cyclic task	nmable device as specified below PLC_PRG in the language specified below : which calls PLC_PRG to the newest version of the Standard library currently installed.
	Device:	PAC320-CXX2X-XX (Parker Hannifin)
	PLC_PRG in:	Structured Text (ST)
		OK Cancel



Double click on "Device (PAC320-CXX2X-XX)."

Untitled4.project - Parker Automation Manager - PAC progr	amming system
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Devices – 4 ×	
Untitled4	
Device (PAC320-CXX2X-XX)	
□	
 Library Manager PLC_PRG (PRG) Symbol configuration Task Configuration EtherCAT_Master EtherCAT_Master.EtherCAT_Task MainTask PLC_PRG SoftMotion General Axis Pool EtherCAT_Master (PAC320 EtherCAT Master) PAC320_BusCoupler (PAC320 BusCoupler) 	



Choose Gateway-2 as below

(You can see the green dot if connection is OK. If not, please check the cable is connected well.)

Device X										
Communication Settings	Applications	Files	Log	PLC settings	PLC shell	Users and Groups	Access Rights	Task deployment	Status	Information
Gran network Gateway - Device -										
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	L									
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	_		Ga	teway						
	Cate	way-1			•	RND-LABTOP		_		
					<u> </u>	KND-LABTOP		•		
		way-1 way-2								
	1000	nosc								
	Port: 1217									
	1217									



Select "Scan network". After scanning process finds the PAC, select the PAC and click OK.

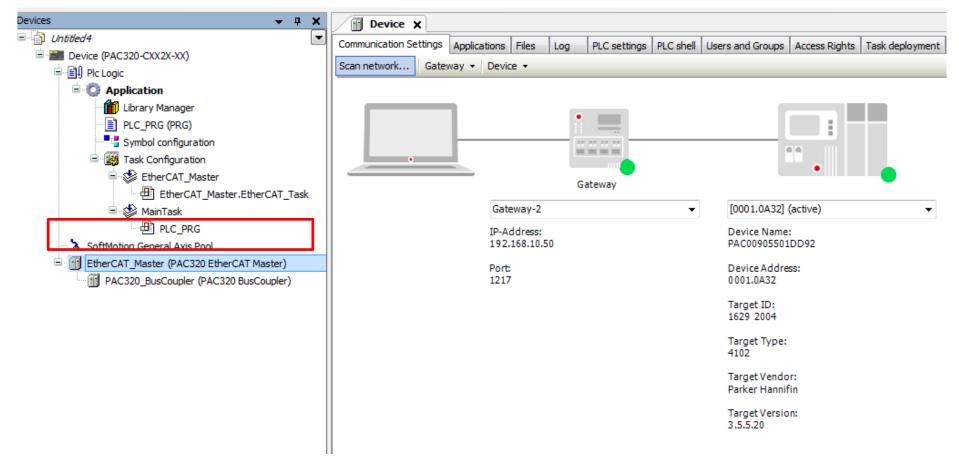
Sett Device Prdress: 1217 Sett Device Name: Sett
PAC320-CBE21-3A OK Cancel

• The Green dot on the device indicates that the device was found and you are now connected to the PAC.

👔 Device 🗙										
Communication Settings App	lications Files	Log	PLC settings	PLC shell	Users and Groups	Access Rights	Task deployment	Status	🕕 Informatio	n
Scan network Gateway	Device									
		•								
-										
						•				
	-	Ga	ateway							
	Gateway-2			•	[0001.0A32]	(active)	•			
	IP-Address: 192.168.10.5	50			Device Name PAC00905501					
	Port: 1217				Device Addre 0001.0A32	55:				
					Target ID: 1629 2004					
					Target Type: 4102					
					Target Vendo Parker Hannif					
					Target Versio 3 .5.5.20)n:				
								_		

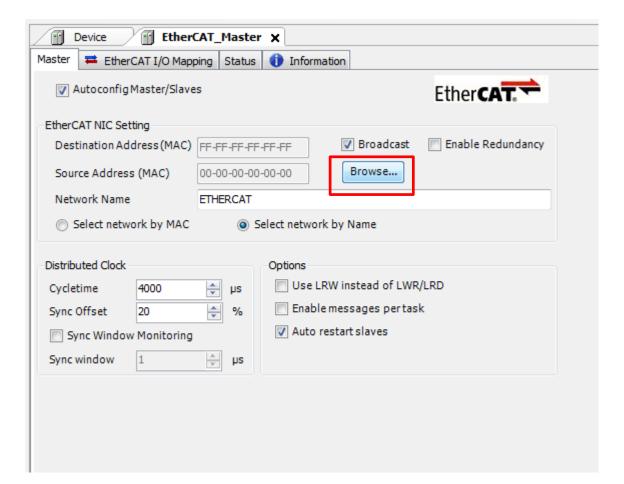


Double click the EtherCAT_Master node (PAC320 EtherCAT Master)





Choose "Browser"





Choose 00905501DD93 (PAC EtherCAT Port). Click OK

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Device (PAC320-CXX2X-XX)		_
Pic Logic	AutoconfigMaster/Slaves Ethe	rCAT
Application	EtherCAT NIC Setting	
PLC_PRG (PRG)		le Redundancy
Symbol configuration	Select Network Adapter	
🖻 🙀 Task Configuration		
🖻 🗳 EtherCAT_Master		
EtherCAT_Ma	12 100905501DD93	
i⊒s∰ MainTask ∰ PLC_PRG		
SoftMotion General Axis Pool		
EtherCAT_Master (PAC320 Et		
PAC320_BusCoupler (PAC	name: ETHERCAT	
	description: PAC EtherCat Port	
	OK Abort	
l l		



• Change the Distributted Clock Cycle time to 1000 (1000 usec is a reasonable starting point.)

Device EtherCAT_Master X	Device EtherCAT_Master X
Master 🛱 EtherCAT I/O Mapping Status 🚯 Information	Master 🛱 EtherCAT I/O Mapping Status 🕕 Information
Autoconfig Master/Slaves Ether	AutoconfigMaster/Slaves EtherCAT
EtherCAT NIC Setting Destination Address (MAC) FF-FF-FF Source Address (MAC) 00-90-55-01-DD-93 Browse Network Name ETHERCAT © Select network by MAC © Select network by Name	EtherCAT NIC Setting Destination Address (MAC) FF-FF-FF Source Address (MAC) 00-90-55-01-DD-93 Browse Network Name
Distributed Clock Cycletime 4000 ★ µs Sync Offset 20 ★ % Sync Window Monitoring Sync window 1 ★ µs	 Select network by MAC Select network by Name Distributed Clock Cycletime 1000 µs Sync Offset Sync Window Monitoring Sync window 1 µs Cycletime Options Use LRW instead of LWR/LRD Enable messages per task ✓ Auto restart slaves



Configure the EtherCAT_Master Task

Double click on "EtherCAT_Master"

Untitled4.project* - Parker Automation Manager - PAC programming system				
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Device (PAC320-CXX2X-XX)				
Pric Logic	Autoconfig Master/Slaves	Ether CAT.		
Application Library Manager PLC_PRG (PRG) Symbol configuration Task Configuration Task Configuration EtherCAT_Master EtherCAT_Master.EtherCAT_Task MainTask PLC_PRG SoftMotion General Axis Pool	EtherCAT NIC Setting Destination Address (MAC) FF-FF-FF-FF ♥ Broade Source Address (MAC) 00-90-55-01-DD-93 Browse. Network Name ETHERCAT Select network by MAC Select network by Name Distributed Clock Cycletime 1000 ↓ µs Use LRW instead of	f Lwr/LrD		
EtherCAT_Master (PAC320 EtherCAT Master)	Sync Offset 20			

Closed Loop Stepping System

Configure the EtherCAT_Master Task

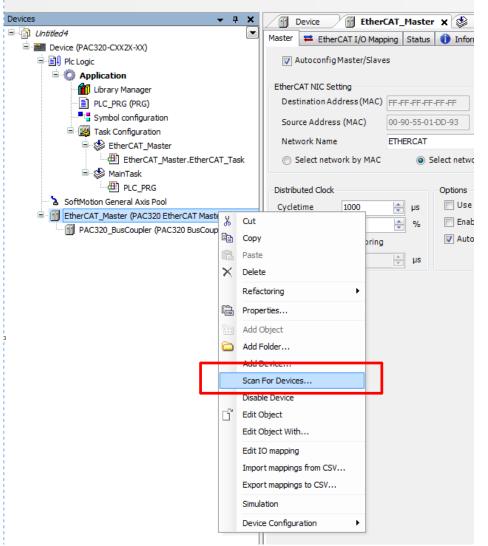
Set the Type to External

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Devices 👻 🕂 🗙	Device EtherCAT_Master Street EtherCAT_Master				
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	POU EtherCAT_Master.EtherCAT_Task	Comment EtherCAT_Master.EtherCAT_Task			



Scan for Devices

 Right-click on "EtherCAT_Master [PAC320 EtherCAT Master] and select "Scan for Devices..."





Scan for Devices

A list of connected EtherCAT slaves will be displayed and then click the "Copy all devices to project"

evicename	Devicetype	Alias Address
Attention! The device was not found in the repository	Vendorcode: 0xFA00000, Productcode: 0x119800, Revision:…	
Attention! The device was not found in the repository	Vendorcode: 0xFA00000, Productcode: 0x119800, Revision:	
PAC320_BusCoupler	PAC320 BusCoupler	0
Ezi_SERV02_EtherCAT	Ezi-SERVO2 EtherCAT	0
- Attention! The device was not found in the repository	Vendorcode: 0xFA00000, Productcode: 0x119800, Revision:	
Ezi_SERV02_EtherCAT	Ezi-SERVO2 EtherCAT	0
Attention! The device was not found in the repository	Vendorcode: 0xFA00000, Productcode: 0x119800, Revision:	
	Vendorcode: 0xFA00000, Productcode: 0x119800, Revision:…	



Scan for Devices

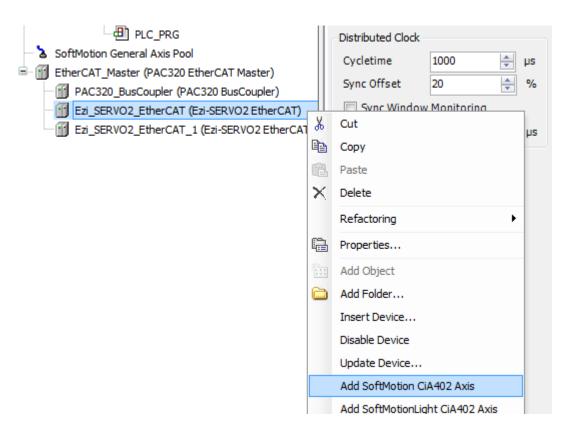
Right click on the PAC320_BusCoupler_1(PAC320 BusCoupluer) and choose the Delete

Untitled4.project* - Parker Automation Manager - PAC pro-	gramming system		
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	- · -	Grand Device (PAC320-CXX2X-XX)	Master 🗮 EtherCAT I/O Mapping Status
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		E O Application	
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🖹 📠 Device (PAC320-CXX2X-XX)			Source Address (MAC) 00-90-55-01
🖻 🗐 Plc Logic	Autoconfig Master/Slaves	Task Configuration	Network Name ETHERCAT
Application		EtherCAT_Master	
🗂 🏥 Library Manager	EtherCAT NIC Setting	EtherCAT_Master.EtherCAT_Task	Select network by MAC S
PLC_PRG (PRG)	Destination Address (MAC) FF-	□ 🕸 MainTask 🔤 PLC_PRG	
Symbol configuration	Source Address (MAC) 00-		Distributed Clock
🖃 🧱 Task Configuration			Cycletime 1000 🚔 µs
EtherCAT_Master	Network Name ETH	PAC320_BusCoupler (PAC320 BusCoupler)	Sync Offset 20 🚔 %
EtherCAT_Master.EtherCAT_Task	Select network by MAC	PAC320_BusCoupler_1 (PAC320 BusCoupler)	Sync Window Monitoring
🖻 🐝 MainTask		Ezi_SERVO2_EtherCAT (Ezi-SERVO2 Et 🐰 Cut	μs
PLC_PRG	Distributed Clock	🕤 Ezi_SERVO2_EtherCAT_1 (Ezi-SERVO2 🗎 Copy	
🗠 🍐 SoftMotion General Axis Pool	Cycletime 1000	Past	e
🖻 💮 EtherCAT_Master (PAC320 EtherCAT Master)	Sync Offset 20	× Dele	te
PAC320_BusCoupler (PAC320_BusCoupler)			
PAC320_BusCoupler_1 (PAC320 BusCoupler)	Sync Window Monitoring	Refa	octoring •
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Ezi_SERVO2_EtherCAT_1 (Ezi-SERVO2 EtherCAT)		No. Add	Object
		Add	Folder
			Device
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Add device

Right-click on the Ezi_SERVO2_EtherCAT and choose Add Softmotion CiA 402 Axis





Add device

Then SM_Drive_Generic axis is created.

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🖹 🔘 Application	
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EtherCAT_Master.EtherCAT_Task	Select network by MAC Select network by Name
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PLC_PRG	Distributed Clock Options
SoftMotion General Axis Pool	Cycletime 1000 🚔 µs 🔲 Use LRW instead of LWR/LRD
EtherCAT_Master (PAC320 EtherCAT Master)	Sync Offset 20 👻 % 🔲 Enable messages per task
PAC320_BusCoupler (PAC320 BusCoupler)	Sync Window Monitoring
SM_Drive_GenericDSP402 (SM_Drive_Generic	
	Sync window 1 µs
Ezi_SERVO2_EtherCAT_1 (Ezi-SERVO2 EtherCAT)	



Add device

Right-click on Ezi-SERVO2_EtherCAT_1 and choose Add Softmotion CiA 402 Axis then SM_Drive_Generic axis is created same as before.

Untitled4.project* - Parker Automation Manager - PAC programming system				
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EtherCAT_Master				
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PLC_PRG	Distributed Clock Options			
SoftMotion General Axis Pool	Cycletime 1000 🚔 µs 🔲 Us	e LRW instead of LWR/LRD		
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Ezi_SERVO2_EtherCAT_1 (Ezi-SERVO2 EtherCAT)				
ር 🔗 SM_Drive_GenericDSP402_1 (SM_Drive_Gen				

bing System

Login

Select the Login Icon on the Toolbar and click Yes

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	Login (Alt+F8)	
Devices	Device FtherCAI Master X 🕸 EtherCAT Master	Parker Automation Manager - PAC programming system
Untitled4	Master 🗮 EtherCAT I/O Mapping Status 🚺 Information	
Device (PAC320-CXX2X-XX)	☑ Autoconfig Master/Slaves EtherCA	Warning: An unknown version of the application 'Application' is currently in RUN mode on the PLC. However, do you want to download the latest code and
Application Application Characteristic Application Characteristic Application Place	EtherCAT NIC Setting Destination Address (MAC) FF-FF-FF-FF V Broadcast Enable Re Source Address (MAC) 00-90-55-01-DD-93 Browse Network Name ETHERCAT Select network by MAC Select network by Name Distributed Clock Cycletime 1000 + µs Use LRW instead of LWR/LRD	replace the existing application?
PAC320 EurCAT_Master (PAC320 EurCAT Master) PAC320 EurCoupler (PAC320 BusCoupler) PAC320 EurCAT(Eai-SERV02 EtherCAT) C SM_Drive_GeneridDSP402 (SM_Drive_Generid Exi_SERV02_EtherCAT_1 (Exi-SERV02 EtherCAT) C SM_Drive_GeneridDSP402_1 (SM_Drive_GeneridDSP402_1 (SM_Drive_Generi	Sync Offset 20 * % Enable messages per task Sync Window Monitoring Sync window 1 * µs	



Login

You can see the below will show up on your device tree

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Plc Logic	✓ Autoconfig Master/Slaves	Ether CAT.	-							
Application [stop]	EtherCAT NIC Setting									
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EtherCAT_Master										
EtherCAT_Master.EtherCAT_Task	 Select network by MAC Select 	network by Name								
🖻 🕸 MainTask										
PLC_PRG		tions								
- 😳 🍐 SoftMotion General Axis Pool	Cycletime 1000 🔶 µs	Use LRW instead of LWR/LRD								
EtherCAT_Master (PAC320 EtherCAT Master)] Enable messages pertask								
PAC320_BusCoupler (PAC320 BusCoupler)		Auto restart slaves								
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	Bus load: 0 %									
					lan et e					
	Messages - Totally 0 error(s), 1 warning(s), 5 messa Build	 Ige(s) O error(s) O warning(s) 	5 message(s)		# X Watch 1 Expression	Executionpoint	Туре	Value	Prepared value	
	Description	Project	Object	Position	*	Executionpoint	1360	Value	Trepared Value	- Address
	generate code	Figlet	Object	Position						
	generate global initializations									
	generate global mitializations									
	generate relocations									
	Gize of generated code: 558710 bytes									
	Size of global data: 177890 bytes				E					
	 Total allocated memory size for code and dat 	a: 721536 bytes								
	Memory area 0 contains Data, Input, Output,	-								
4	Memory area 1 contains Retain Data and Pers				•					
Devices POUs	Build complete 0 errors, 0 warnings : ready				- 💹 Watch 1 🔊 E	reaknointe				
					* 862 Watch 1 801					
			Last build: 😮 0 😗 0	Precompile: 🗸	STOP	Program loaded		Program uncha	anged	Current user: (nobody)



Start

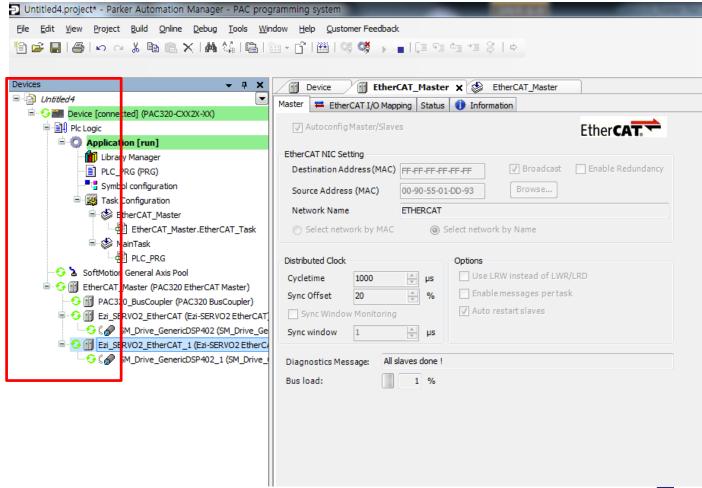
• Select the Start Icon on the Toolbar

Untitled4.project* - Parker Automation Manager - PAC prog	gramming system
<u>File E</u> dit <u>V</u> iew <u>P</u> roject <u>B</u> uild <u>O</u> nline <u>D</u> ebug <u>T</u> ools <u>W</u> in	ndow <u>H</u> elp <u>C</u> ustomer ^F eedback
🎦 🛩 🔚 🍜 🗢 🗠 🐰 🗈 🛍 🗶 🐴 🕼 🏝 🏌	🏭 🗸 🗗 🛗 🛯 🧐 📬 🥊 🔰 🖉 📘 🗐 👘 👘 🖓 🗍 로
	Start (F5)
Devices – 🕈 🗙	Device EtherCAT_Master 🗙 🕸 Ether
Untitled4	Master 🗮 EtherCAT I/O Mapping Status 🕕 Information
Operation of the second s	
Plc Logic	✓ Autoconfig Master/Slaves
Application [stop]	
🎁 Library Manager	EtherCAT NIC Setting
PLC_PRG (PRG)	Destination Address (MAC) FF-FF-FF-FF-FF-FF
Symbol configuration	Source Address (MAC) 00-90-55-01-DD-93
🖹 🧱 Task Configuration	
🖃 😻 EtherCAT_Master	Network Name ETHERCAT
EtherCAT_Master.EtherCAT_Task	 Select network by MAC Select network by
🖹 🍪 MainTask	L
PLC_PRG	Distributed Clock Options
🖅 🚱 🏅 SoftMotion General Axis Pool	Cycletime 1000 🌲 µs 🗌 Use LRW in
🖹 🛆 🔟 EtherCAT_Master (PAC320 EtherCAT Master)	
PAC320_BusCoupler (PAC320 BusCoupler)	
🖶 🛆 🔟 Ezi_SERVO2_EtherCAT (Ezi-SERVO2 EtherCAT)	Sync Window Monitoring 🗸 Auto restar
▲ 🕼 SM_Drive_GenericDSP402 (SM_Drive_Ge	Sync window 1 hs
🖮 🛆 📆 Ezi_SERVO2_EtherCAT_1 (Ezi-SERVO2 EtherC/	
SM_Drive_GenericDSP402_1 (SM_Drive_	Diagnostics Message:



Start

The Green dot on the device indicates that you are now ready to run EtherCAT slave.





We are a pioneer changing the history of step motor !!



