

FASTECH

Fast, Accurate, Smooth Motion Control

Ezi-SERVOII-EC 기초 사용법

< Advantech 'PCI-1203'편 >



Ezi-SERVO[®]
Closed Loop Stepping System

☐ Ezi-SERVOII-EC 관련 자료 Down [ESI(XML)]

☐ ESI(XML) : www.fastech.co.kr 홈페이지 [파스텍 자료실]에서 다운로드

The screenshot shows the Fastech website interface. At the top, there is a navigation menu with links for '회사소개', '제품정보', '제품동영상', '전시회안내', '해외판매망', '파스텍 자료실', 'FAQ', and '온라인상담'. The main content area features a large banner with the text 'Fast, Accurate and Smooth Motion Control Technology together with always constant mind'. Below the banner, there is a search bar and a section titled '파스텍 자료실' (Fastech Archive). The archive section displays a list of files, with one file highlighted by a red dashed box and a red arrow pointing to it with the word 'Click'. The highlighted file is 'FASTECH_Ezi-SERVO2_EtherCAT.XML (176.2K) [93]' with a date of '2015-10-12 09:59:27'. The website also includes a 'FASTECH PRODUCTS' section and a 'HOME' link in the top right corner.

☐ Ezi-SERVOII-EC 관련 자료 Down [Manual]

☐ Manual : www.fastech.co.kr 홈페이지 [제품정보]에서 다운로드

FASTECH
Fast, Accurate, Smooth Motion

회사소개 제품정보 제품동영상 전시회안내 해외판매망 파스텍 자료실 FAQ 온라인상담

Fast, Accurate and Smooth Motion Control Technology
together with always constant mind

FASTECH products can be found driving applications such as: LCD/LED Manufacturing Semi-conductor fabrication, Assembly machines, Packaging machines, Medical diagnostic equipment, Laboratory apparatus, Vision Inspection systems and many other applications that require precise smooth movement. Fastech drives have industry standard NEMA mounting flanges and easily adapt to most linear actuators and precision stages.

SEARCH 검색

Ezi-Servo series
풍부한 기술력과 경쟁력을 가진 파스텍(주)을 소개합니다

HOME > 제품정보 > Ezi-Servo series

제품정보
Product Information

- ① 파스텍 제품특성
- ② Ezi-SERVO series
- ③ Ezi-STEP series
- ④ Ezi-LinearStep series
- ⑤ Ezi-Robo series
- ⑥ S-SERVO series
- ⑦ Ezi-MotionNetwork series
- ⑧ Ezi-Motionlink series

Ezi-SERVO II EtherCAT
Closed Loop Stepping System

EtherCAT CE
Conformance tested

Ezi-SERVO II EtherCAT은 FASTECH의 페루프 스텝 모터제어 시스템과 Ethernet 기반의 Fieldbus인 EtherCAT을 결합한 시스템입니다. Ezi-SERVO II EtherCAT은 CiA402 Drive Profile을 지원합니다.

Click

- CiA 402 Drive Profile Support
- Closed Loop Stepping System
- No Gain Tuning / No Hunting
- Torque Improvement by Boost Current Control

제품사양 제품형명 및 도면 카탈로그 메뉴얼

Closed Loop Stepping System

■ ESI(XML) 저장

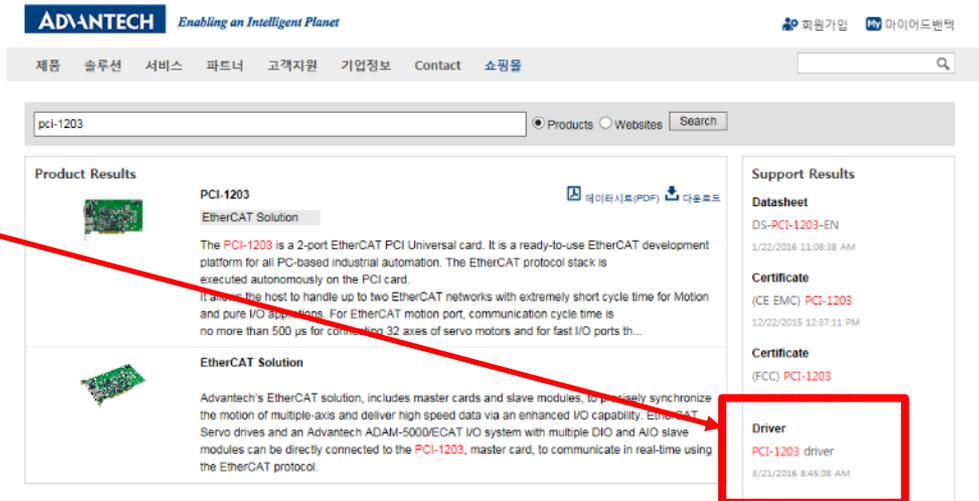
- On-Line 스캔 방법 : 별도의 ESI 파일 사용 없이 자동적으로 Slave로부터 모든 정보를 얻을 수 있으며,
- Off-Line 스캔 방법 : ESI 파일의 정보를 사용하여 Slave에 대한 Configuration 을 진행 할 수 있으나,
- ADVANTECH社의 PCI-1203은 On-Line 스캔 방법을 사용하며 ESI 파일을 별도로 Register 할 필요가 없음.
- 또한, PCI-1203의 경우 PDO Configuration이 PCI-1203에 이미 Fix 되어 있기 때문에 User가 PDO Mapping을 변경할 수 없음 (일반적으로 고객들이 EtherCAT API Layer를 쓰지 않고 Common Motion API Layer를 사용하기 때문)
- 일반적인 PC 기반 고객들은 일반적인 API Layer를 잘 알고 있고, PCI-1203 역시 이 방법을 사용하고 있기 때문에 실제 User가 EtherCAT Protocol을 정확하게 이해하고 있지 않더라도 쉽게 제품을 Utilize 할 수 있으며 이것이 PCI-1203의 큰 장점임

Program 설치

www.advantech.co.kr 사이트 접속 및 검색창에 PCI-1203 입력 및 검색



PCI-1203 Drive 프로그램 선택



Program 설치

□ PCI-1203 Common Motion Driver 프로그램을 선택하고 Primary Download Site를 이용하여 Down 받는다

ADVANTECH *Enabling an Intelligent Planet* Home

Products Solutions Corporate Partners Support Services Contact  eStore

Support / Downloads / Driver /

Document No. 1-2325095434			
Date Updated	03-21-2016	Date Created	12-28-2015
Document Type	Driver	Related OS	Win7
Related Product	PCI-1203-06AE		

PCI-1203 LabView driver

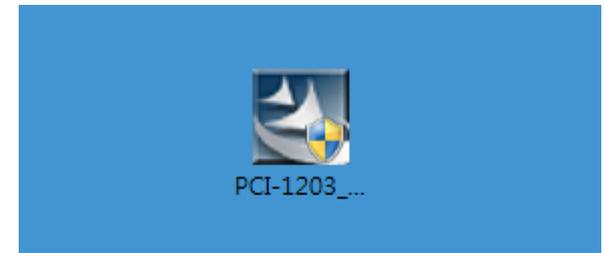
Solution :

Download File	Released Date	Download Site	
PCI-1203_LabVIEW_Driver.exe	2015-12-28	Primary	Secondary

PCI-1203 common motion driver

Solution :

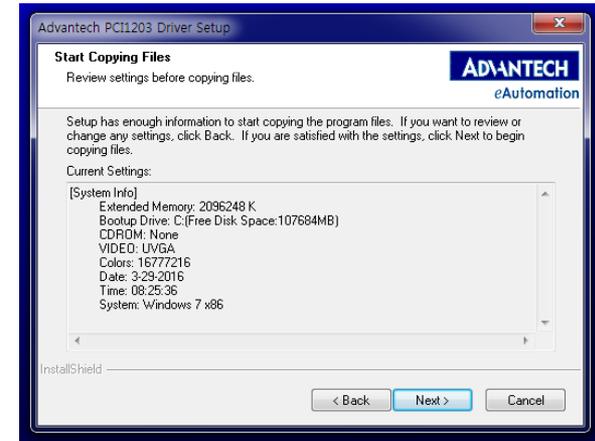
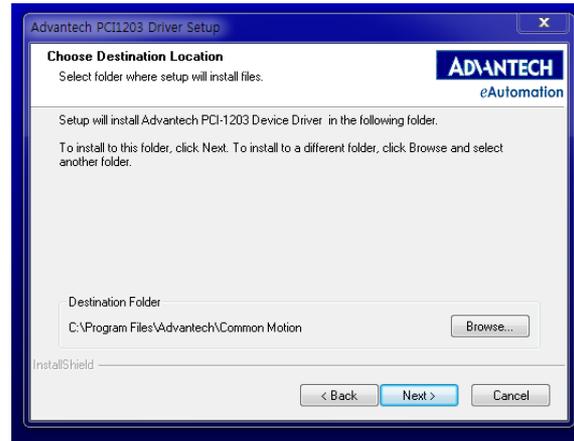
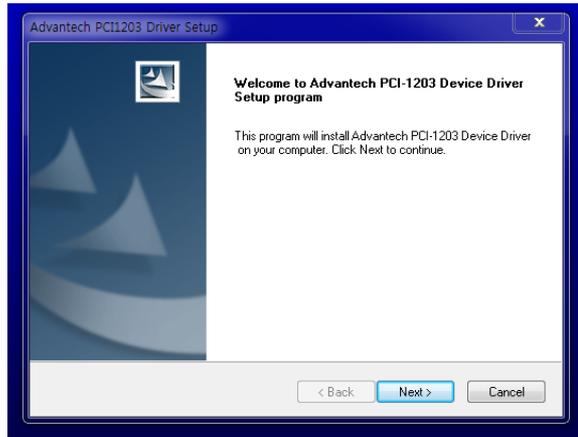
Download File	Released Date	Download Site	
PCI-1203_Driver.exe	2016-03-17	Primary	Secondary



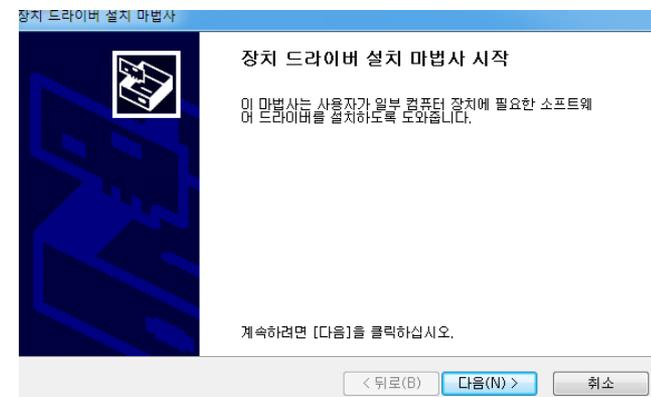
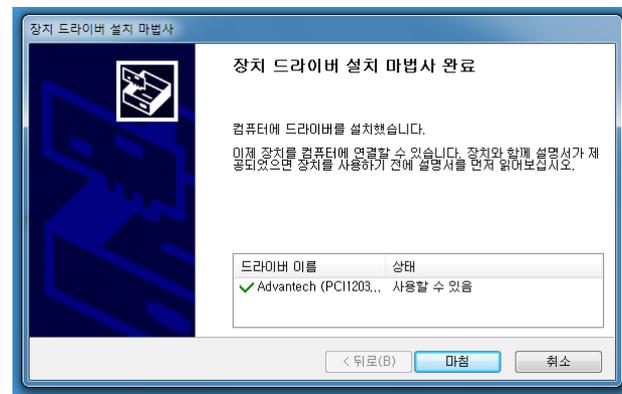
□ Download를 실행하면 바탕화면에 PCI-1203 실행 아이콘이 생성됨

Program 설치

PCI-1203 Driver Set Up 프로그램을 실행하되 Windows Vista 64비트 전용임



□ 사용할 수 있음
이라는 설치 완료
확인 할 것

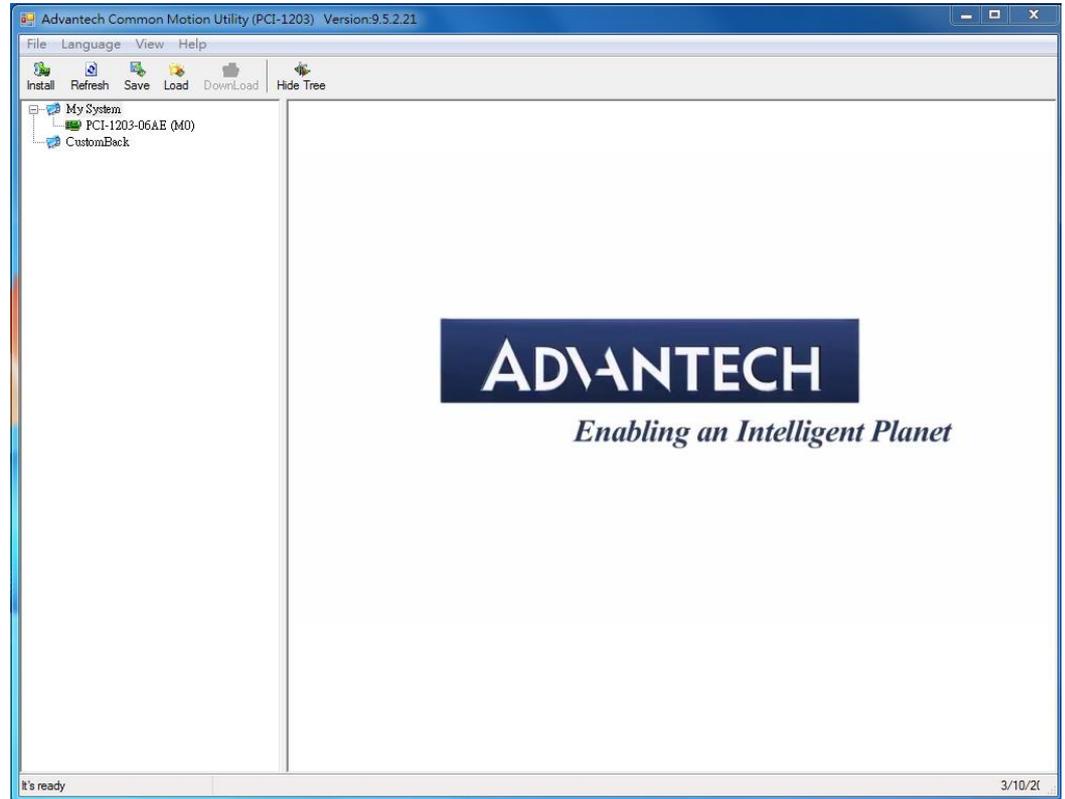


Program 구동

□ 프로그램 설치 후 바탕화면에 생성된 Common Motion Utility (PCI-1203) 프로그램을 실행한다.



□ 실행하고 나면 처음 Loading 프로그램이 화면에 뜬다



Program 구동

- 좌측 Tree 부분에서 PCI-1203-06AE 즉, Master단에서 실행할 수 있는 여러 기능들을 실행할 수 있는 창임

Advantech Common Motion Utility (PCI-1203) Version:9.5.2.21

File Language View Help

Instal Refresh Save Load Download Motion DAQ Hide Tree

My System

- PCI-1203-06AE (M0)
 - Motion Ring
 - 0x261: Ezi-SERVO2 EtherCAT
 - 0x200: Ezi-SERVO2 EtherCAT
 - Fast IO Ring
 - CustomBack

Single-Axis Motion Multi-Axis Motion Synchronized Motion Local IO DO DI Mapping Table Information

Operate Axis: PCI-1203-06AE (M0) 1-Axis SVON Device Number:Dx62000000

Motion Params Set

Distance: 10000 PPU

VelLow: 2000 PPU/S

VelHigh: 8000 PPU/S

Acc.: 10000 PPU/S²

Dec.: 10000 PPU/S²

New Pos: 3000 PPU

New Vel: 5000 PPU/S

Speed Pattern

Trapezia S-curve View Range>>

Motion Mode

P to P Continue

Set Parameters Speed Chart>>

Configuration

Home Mode>> External Drive>>

Axis Setup>> Axis Status>>

Move Test

<- ->

Move Impose Stop

PTP Back-and-Forth>>

Position

Command: 15395 Reset Error

Feedback: 15395 Reset Counter

Current Axis Status

Current State: Ready

Command Velocity: 0

I/O Status

- RDY
- ALM
- LMT+
- LMT-
- ORG
- DIR
- EMG
- PCS
- ERC
- EZ
- CLR
- LTC
- SD
- INP
- SVON
- RALM
- SLMT+
- SLMT-
- CMP
- CAM-DO
- TORLMT

Last Error Status

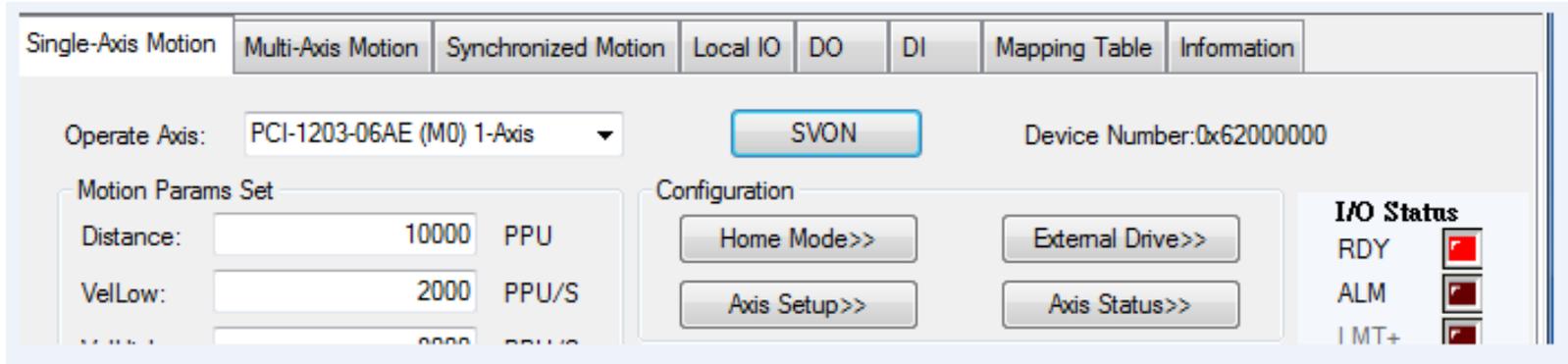
Error Code: 0 Error Message: Success

Stop

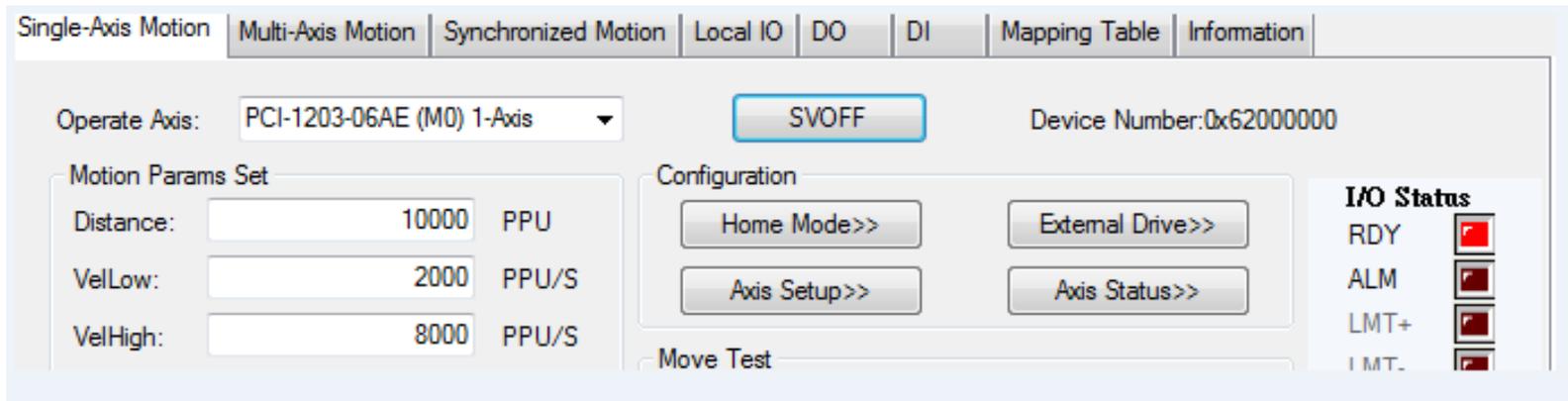
It's ready 3/10/21

Program 구동

- Servo On과 Servo Off는 SVON / SVOFF 버튼을 클릭하여 실행한다



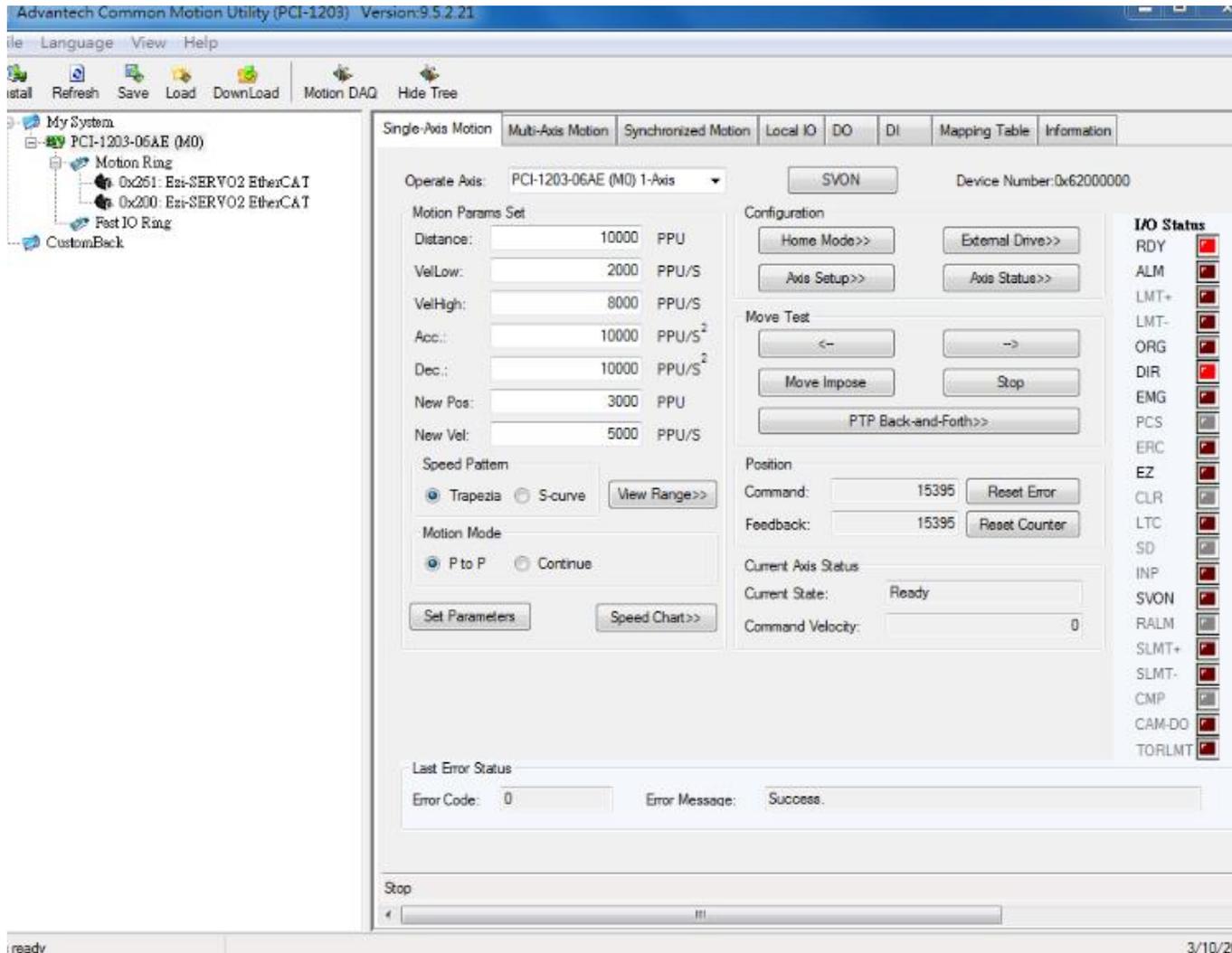
The screenshot shows the 'SVON' control interface. At the top, there are tabs for 'Single-Axis Motion', 'Multi-Axis Motion', 'Synchronized Motion', 'Local IO', 'DO', 'DI', 'Mapping Table', and 'Information'. The 'Operate Axis' dropdown is set to 'PCI-1203-06AE (M0) 1-Axis'. The 'SVON' button is highlighted in blue. To the right, the 'Device Number' is '0x62000000'. Below this, there are two main sections: 'Motion Params Set' and 'Configuration'. The 'Motion Params Set' section includes fields for 'Distance' (10000 PPU), 'VelLow' (2000 PPU/S), and 'VelHigh' (8000 PPU/S). The 'Configuration' section has buttons for 'Home Mode>>', 'External Drive>>', 'Axis Setup>>', and 'Axis Status>>'. On the far right, the 'I/O Status' section shows three indicators: 'RDY' (red), 'ALM' (red), and 'LMT+' (red).



The screenshot shows the 'SVOFF' control interface. It has the same top tabs as the SVON interface. The 'Operate Axis' dropdown is set to 'PCI-1203-06AE (M0) 1-Axis'. The 'SVOFF' button is highlighted in blue. The 'Device Number' is '0x62000000'. Below this, there are two main sections: 'Motion Params Set' and 'Configuration'. The 'Motion Params Set' section includes fields for 'Distance' (10000 PPU), 'VelLow' (2000 PPU/S), and 'VelHigh' (8000 PPU/S). The 'Configuration' section has buttons for 'Home Mode>>', 'External Drive>>', 'Axis Setup>>', and 'Axis Status>>'. On the far right, the 'I/O Status' section shows three indicators: 'RDY' (red), 'ALM' (red), and 'LMT+' (red). There is also a 'Move Test' button at the bottom left.

Program 구동

가장 기본인 Single-Axis Motion의 GUI는 아래와 같이 구성되어 있다



Program 구동

- 거리값, 속도, 가감속 및 위치 정보는 기본 Basic Setting을 통해서 입력 가능하다

Operate Axis: PCI-1203-06AE (M0) 1-Axis ▼

Motion Params Set

Distance:	20000	PPU
VelLow:	2000	PPU/S
VelHigh:	8000	PPU/S
Acc.:	10000	PPU/S ²
Dec.:	10000	PPU/S ²
New Pos:	3000	PPU
New Vel:	5000	PPU/S

Program 구동

- 예를 들어 아래의 값으로 Basic Setting 하여 Move Test를 하게 되면 실제 Position Value값을 확인할 수 있으며, Reset Counter를 통해 0의 값으로 Reset 가능함

Operate Axis: PCI-1203-06AE (M0) 1-Axis ▼

Motion Params Set

Distance:	20000	PPU
VelLow:	2000	PPU/S
VelHigh:	8000	PPU/S
Acc.:	10000	PPU/S ²
Dec.:	10000	PPU/S ²
New Pos:	3000	PPU
New Vel:	5000	PPU/S

Move Test

<- >-

Move Impose Stop

PTP Back-and-Forth>>

■ Program 구동

- 예를 들어 아래의 값으로 Basic Setting 하여 Move Test를 하게 되면 실제 Position Value값을 확인할 수 있으며, Reset Counter를 통해 0의 값으로 Reset 가능함

Position

Command:

Feedback:

- 그 외, 회전 방향이나 절대치/상대치 설정은 Motion Operation에서 설정 가능

Motion Operation

Basic Interpolation Motion

Movement Mode: Absolute Relative

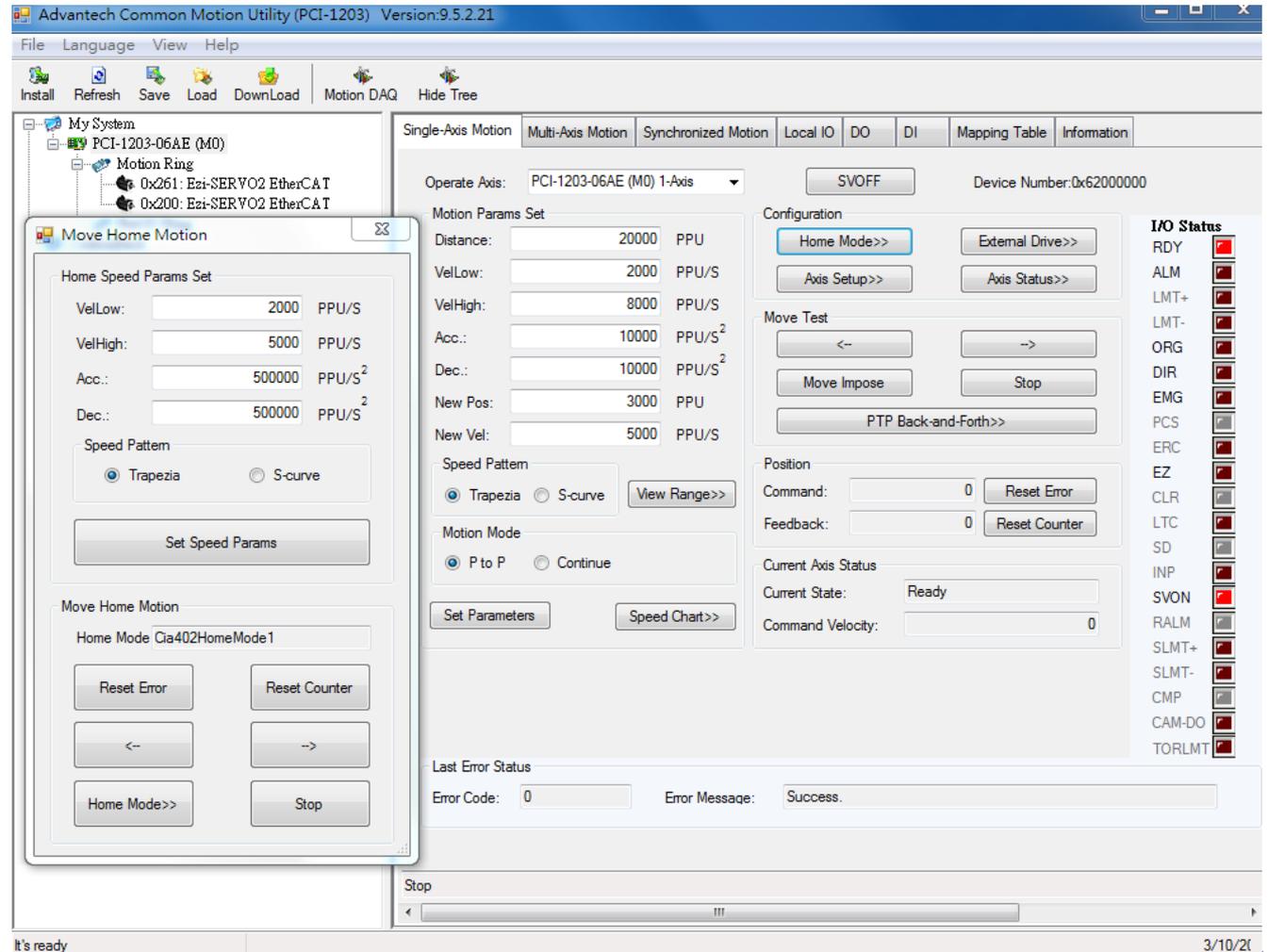
Interpolation Mode: Line Arc Helix

Arc Direction: CW CCW

Program 구동

Configuration에서 Home Mode를 설정하여 사용 가능

Home Mode를 클릭하면 별도 Home Mode 셋팅 창이 나옴



Program 구동

Configuration에서 Axis Status를 선택하여 현재 구동하는 Axis의 축 정보를 확인 가능

The screenshot displays the Ezi-SERVO software interface. On the left, a tree view shows the system configuration: My System > PCI-1203-06AE (M0) > Motion Ring > 0x261: Ezi-SERVO2 EtherCAT > 0x200: Ezi-SERVO2 EtherCAT > Fast IO Ring > CustomBack. The main window is titled 'Single-Axis Motion' and shows the 'Operate Axis' dropdown set to 'PCI-1203-06AE (M0) 1-Axis'. The 'Axis Status' button is highlighted in blue. An 'Axis Status Information' dialog box is open, displaying the following data:

Name	Value
PhylID	AXIS_1
PPU	1
Motion Status	Stop
State	STA_AX_READY
Error Status	SUCCESS
Velocity	0
Actual Position	0
Command Position	0
SLMT+	OFF
SLMT-	OFF
LMT+	OFF
LMT-	OFF
RDY	ON
ALM	OFF
EMG	OFF
INP	OFF
EZ	OFF
ORG	OFF
DIR	OFF
PCS	OFF
ERC	OFF
CLR	OFF

The main window also shows various configuration options like 'Motion Params Set' (Distance: 20000 PPU, VelLow: 2000 PPU/S, etc.), 'Speed Pattern' (Trapezia selected), 'Motion Mode' (P to P selected), and 'I/O Status' indicators on the right. The 'Current Axis Status' is shown as 'Ready'.

Program 구동

□ Configuration에서 Axis Set Up을 선택하여 현재 구동하는 Axis의 축 정보를 확인 가능. 예를 들어 알람, 백래쉬, Home, Jog 등 각 기능별 및 각 축별 Set up 정보가 있고 이를 실제 Set up 할 수 있음

The screenshot displays the Advantech Common Motion Utility (Version: 9.5.2.21) interface. The main window shows the configuration for a single-axis motion. An 'Axis Property Configuration' dialog box is open, showing the following configuration values:

Name	Configuration Value
Alarm Enable	ALM_EN
Alarm Logic	NOT_SUPPORT
Alarm React	ALM_DEC_TO_STOP

The dialog also includes a 'Copy To Axes' section with a 'Copy Config' button and a note: "Note: It configures the active logic for EMG signal of this motion device." The background window shows various motion parameters and status indicators.

Program 구동

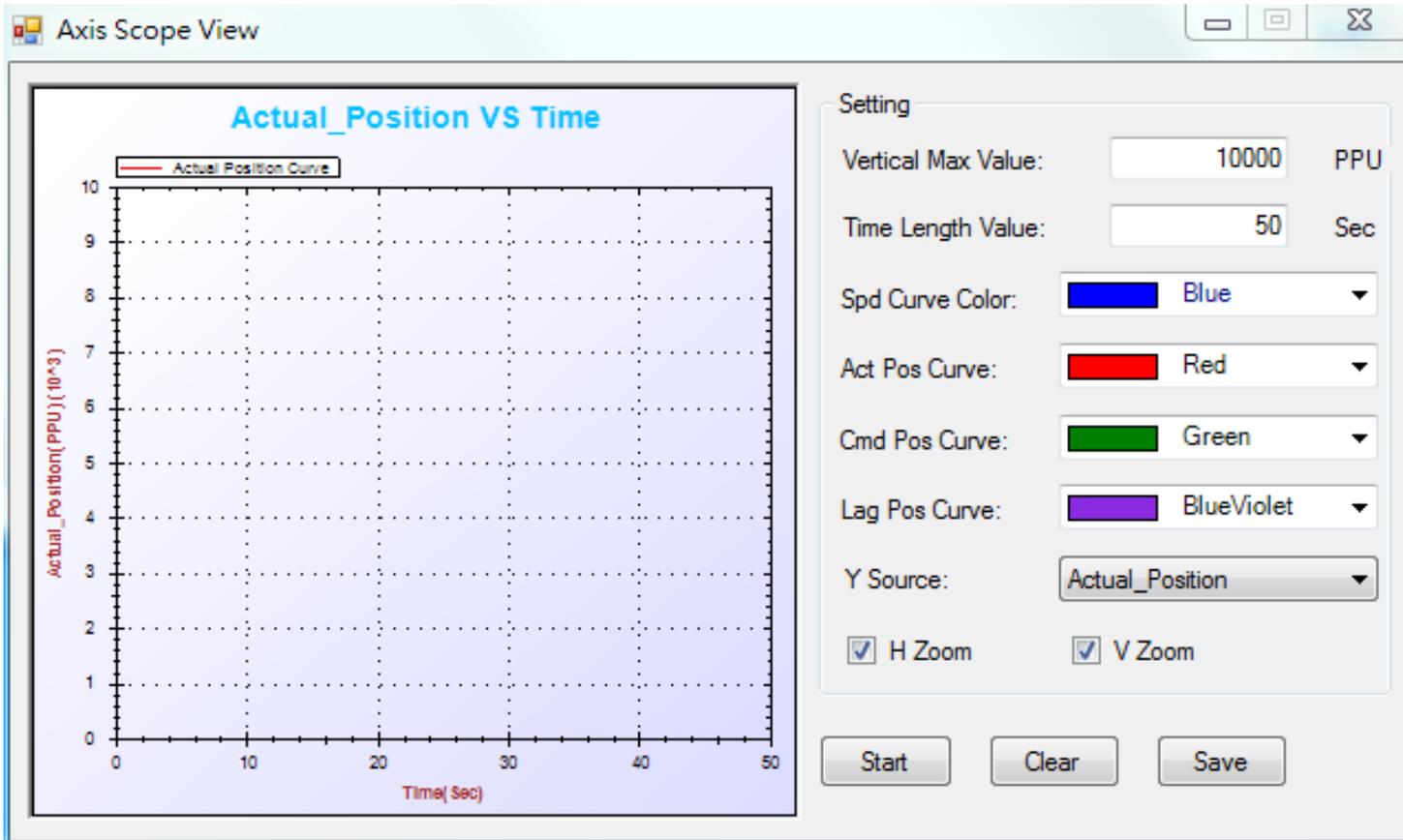
The screenshot displays the Ezio-Servo software interface. The top menu bar includes options like Single-Axis Motion, Multi-Axis Motion, Synchronized Motion, Local IO, DO, DI, Mapping Table, and Information. The main control area shows the Operate Axis set to PCI-1203-06AE (M0) 1-Axis, with a SVOFF button and Device Number: 0x62000000. The Motion Params Set section includes fields for Distance (20000 PPU), VelLow (2000 PPU/S), VelHigh (8000 PPU/S), Acc. (10000 PPU/S²), Dec. (10000 PPU/S²), New Pos. (3000 PPU), and New Vel. (5000 PPU/S). The Configuration section has buttons for Home Mode, External Drive, Axis Setup, and Axis Status. The Move Test section includes directional buttons and Move Impose/Stop buttons. The Position section shows Command and Feedback values (both 0) with Reset Error and Reset Counter buttons. The Current Axis Status section shows the Current State as Ready and Command Velocity as 0. The I/O Status panel on the right lists various status indicators like RDY, ALM, LMT+, LMT-, ORG, DIR, EMG, PCS, ERC, EZ, CLR, LTC, SD, INP, SVON, RALM, and SLMT+.

The Axis Scope View window is open, showing a graph titled "Actual_Position VS Time". The Y-axis is labeled "Actual_Position (PPU) (10³)" and ranges from 0 to 10. The X-axis is labeled "Time (Sec)" and ranges from 0 to 50. A legend indicates "Actual Position Curve" in red. The graph shows a red curve that starts at 0 and rises to approximately 10. The Setting panel on the right of the graph includes: Vertical Max Value (10000 PPU), Time Length Value (50 Sec), Spd Curve Color (Blue), Act Pos Curve (Red), Cmd Pos Curve (Green), Lag Pos Curve (BlueViolet), Y Source (Actual_Position), and checkboxes for H Zoom and V Zoom. Buttons for Start, Clear, and Save are at the bottom.

□ Speed Chart 기능을 통해서 각 축의 파형을 볼 수 있는 Axis Scope View 기능이 있으며 도출되는 그래프마다의 색깔과 각 축에 지정할 수 있는 항목들을 선택할 수 있다 (명령 대비 실제 위치값과 실제 위치까지의 이동 소요 시간)

Program 구동

□ Speed Chart 기능을 통해서 각 축의 파형을 볼 수 있는 Axis Scope View 기능이 있으며 도출되는 그래프마다의 색깔과 각 축에 지정할 수 있는 항목들을 선택할 수 있다 (명령 대비 실제 위치값과 실제 위치까지의 이동 소요 시간)



Program 구동

- Multi-Axis Motion을 통해 해당 Slave 축들을 동시에 Servo On/Off 할 수 있으며, 별도 셋팅하는 Motion Operation 조건에 따라 제품 구동이 가능함

The screenshot displays the Advantech Common Motion Utility (PCI-1203) Version 9.5.2.21 interface. The main window is titled "Operate Axes:" and shows a table of motion parameters for two axes.

Axis	Line End (PPU)	Arc Center (PPU)	Arc End (PPU)
0-Axis	8000	8000	16000
1-Axis	8000	0	0

Below the table, there are buttons for "SVON" and "SVOFF". The "Motion Operation" section includes "Basic Interpolation Motion" with "Movement Mode" (Absolute, Relative) and "Interpolation Mode" (Line, Arc, Helix). The "Arc Direction" is set to "CW". The "Path Motion" section includes "Speed Forward" and "Blending Time" (0 ms). The "Path Status" section shows "CurIndex: 0", "CurCmd: EndPath", "Path Count: 0", "Remain: 0", and "FreeCnt: 7000". The "Position" table shows "Command" and "Feedback" values for 0-Axis and 1-Axis.

Position	0-Axis	1-Axis
Command	4	0
Feedback	4	0

The "Group State" is "Ready". The "Last Error Status" section shows "Error Code: 0" and "Error Message: Success."

Program 구동

- Synchronized Motion에서는 복수의 해당 축들을 동기 제어 할 수 있으며, 특히 CAM Editor 프로그램을 통해서 실제 구동을 Simulation 할 수 있다

Single-Axis Motion | Multi-Axis Motion | Synchronized Motion | Local IO | DO | DI | Mapping Table | Information

Slave Axis Operation
Slave Axis: PCI-1203-06AE (M0) 0-Axis
Synchronized Mode: CAM Gear Gantry
CAM Editor>> Load CAMTable File>>
CAM Motion Configuration
CAMTable ID: 0 Camming Type: Non periodic
Master Movement Mode: Absolute Relative
Slave Movement Mode: Absolute Relative
MasterOffset: 0 SlaveOffset: 0
MasterScaling: 1 SlaveScaling: 1
Reference Source: Command Pos Feedback Pos
Download CAMTable CAM In Stop

Gear Motion Configuration
Numerator: 1 Denominator: 1
Reference Source: Command Pos Feedback Pos
Movement Mode: Absolute Relative
Gear In Stop

Gantry Motion Configuration
Reference Source: Command Pos Feedback Pos
Direction: Same Opposite
Max Diff: 100 Set Gantry In Stop

Master Axis Operation
Master Axis: PCI-1203-06AE (M0)
Motion Params Set
Distance: 10000
VelLow: 2000
VelHigh: 8000
Acc.: 10000
Dec.: 10000
Speed Pattern: Trapezia S-
Motion Mode: P to P Cc
Set Parameters View

Position
Master Axis S
Command: 16000
Feedback: 16000

Current Axis State
Master: Ready
Slave: Ready

Program 구동

- Synchronized Motion에서는 복수의 해당 축들을 동기 제어 할 수 있으며, 특히 CAM Editor 프로그램을 통해서 실제 구동을 Simulation 할 수 있다

The screenshot displays the 'Synchronized Motion' configuration window. At the top, there are tabs for 'Single-Axis Motion', 'Multi-Axis Motion', 'Synchronized Motion', 'Local IO', 'DO', 'DI', 'Mapping Table', and 'Information'. The 'Synchronized Motion' tab is active.

Slave Axis Operation:

- Slave Axis: PCI-1203-06AE (M0) 1-Axis
- Synchronized Mode: CAM, Gear, Gantry
- CAM Editor>> (button)
- Load CAMTable File>> (button)
- CAM Motion Configuration:
 - CAMTable ID: 0
 - Camming Type: Non periodic
 - Master Movement Mode: Absolute, Relative
 - Slave Movement Mode: Absolute, Relative
 - MasterOffset: 0
 - SlaveOffset: 0
 - MasterScaling: 1
 - SlaveScaling: 1
 - Reference Source: Command Pos, Feedback Pos
 - Download CAMTable (button)
 - CAM In (button)
 - Stop (button)

Master Axis Operation:

- Master Axis: PCI-1203-06AE (M0) 0-Axis
- SVOFF (button)
- Motion Params Set:
 - Distance: 10000 PPU
 - VelLow: 2000 PPU/S
 - VelHigh: 8000 PPU/S
 - Acc.: 10000 PPU/S²
 - Dec.: 10000 PPU/S²
- Speed Pattern: Trapezia, S-curve
- Motion Mode: P to P, Continue
- <- (button)
- > (button)
- Stop (button)
- Path Plot>> (button)

Program 구동

- Synchronized Motion에서는 복수의 해당 축들을 동기 제어 할 수 있으며, 특히 CAM Editor 프로그램을 통해서 실제 구동을 Simulation 할 수 있다

The screenshot displays the CAM Editor interface with two main graphs and a control panel on the right.

E-CAM Curve: The top graph shows the position of the slave axis (Slave[Pulse]) on the y-axis (ranging from -1264 to 10113) against the master axis (Master[Pulse] (10*3)) on the x-axis (ranging from 0 to 10). A blue curve labeled 'My Path Curve' starts at (0,0), rises linearly to approximately (6, 10000), remains constant until x=9, and then drops sharply to 0.

Velocity Curve: The bottom graph shows the velocity of the slave axis (Slave=Abs(dY*100[Pulse]) on the y-axis (ranging from -2000 to 138000) against the master axis (Master[Pulse] (10*3)) on the x-axis (ranging from 0 to 10). The curve shows a high-frequency oscillation during the linear rise phase, a sharp peak at the end of the constant phase, and a sharp drop to 0 at the end.

Data Table: A table on the right lists the points defined in the path:

No	X_Pos	Y_Pos	Range	Slope
1	0	0	500	0
6	5996	10000	500	0
5	6997	10000	500	0
4	7998	10000	500	0
3	8999	10000	500	0
2	10000	0	500	0

Control Panel: Below the table are buttons for 'Delete Row', 'Clear All', 'Load Data', and 'Save Data'. Below these are input fields for X (5996), Y (10000), pointRange (500), and Slope (0), with an 'Add Point' button. There is also a 'ModuleRange' field set to 10000 and a 'Change' button. The 'Operation Mode' section has 'Add Point' selected. At the bottom are 'OK' and 'Cancel' buttons.

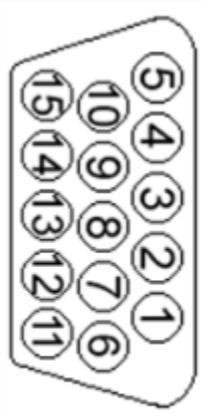
Program 구동

- I/O Assignment 즉, Mapping Table에 들어가면 세부 핀 정보가 확인이 가능

Control

	PortNo	Bit 7	4	3	0	Hex		
Digital Output	0							f
Digital Input	0							0

Pin Assignment



D-Sub Pin Assignment

Pin	Description	Pin	Description
1	DO 3	9	DI 5
2	DI 2	10	DI 7
3	DI 4	11	DO 2
4	DI 6	12	DO 4
5	DI 8	13	External power GND
6	DO 1	14	External power GND
7	DI 1	15	External power (+24V)
8	DI 3		

Program 구동

Device Information

Device Name PCI-1203-06AE (M0)



Description Advantech EtherCAT Master Card

Firmware Version 1.0.1.2.0

FPGA Version a.0.0.3.

Kernel Driver Version 1.0.1.0

User Driver Version 2.0.1.0

System Log Enable

Master (R0)

Topology

Master Name Motion Ring

Cycle Time 500 μ s

Connected Slave Count 2

Description Support EtherCAT servo motor and ADAM-5000/ECAT.

Master (R1)

Topology

Master Name Fast IO Ring

Cycle Time 200 μ s

Connected Slave Count 0

Description Support ADAM-5000/ECAT.
(Servo motor not support)

Information에서는 기본 마스터 관련 Device 정보 확인 가능

Program 구동

□ Motion Ring Tree 아래에 있는 인식된 파스텍 Slave를 클릭하면 개별 축에 대한 GUI 확인 가능

Advantech Common Motion Utility (PCI-1203) Version:9.5.2.21

File Language View Help

Install Refresh Save Load DownLoad Motion DAQ Hide Tree

My System

- PCI-1203-06AE (M0)
 - Motion Ring
 - 0x261: Ezi-SERVO2 EtherCAT
 - 0x200: Ezi-SERVO2 EtherCAT
 - Fast IO Ring
 - CustomBack

Single-Axis Motion DO DI Motion IO IO List Information

Operate Axis: PCI-1203-06AE (M0) 1-Axis SVOFF Device Number:0x62000000

Motion Params Set

Distance: 20000 PPU

VelLow: 2000 PPU/S

VelHigh: 8000 PPU/S

Acc.: 10000 PPU/S²

Dec.: 10000 PPU/S²

New Pos: 3000 PPU

New Vel: 5000 PPU/S

Speed Pattern

Trapezia S-curve View Range>>

Motion Mode

P to P Continue

Set Parameters Speed Chart>>

Configuration

Home Mode>> External Drive>>

Axis Setup>> Axis Status>>

Move Test

<- ->

Move Impose Stop

PTP Back-and-Forth>>

Position

Command: 0 Reset Error

Feedback: 0 Reset Counter

Current Axis Status

Current State: Ready

Command Velocity: 0

I/O Status

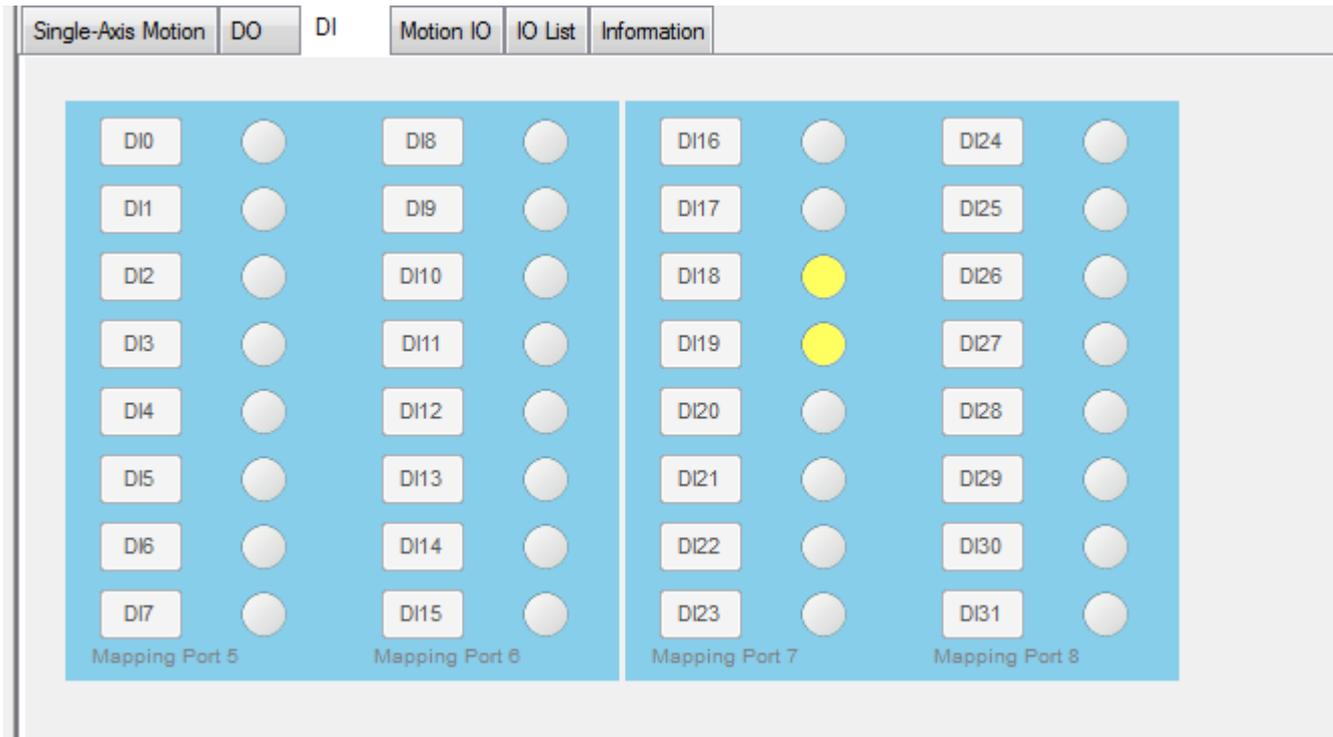
- RDY
- ALM
- LMT+
- LMT-
- ORG
- DIR
- EMG
- PCS
- ERC
- EZ
- CLR
- LTC
- SD
- INP
- SVON
- RALM
- SLMT+
- SLMT-
- CMP
- CAM-DO
- TORLMT

Last Error Status

Error Code: 0 Error Message: Success.

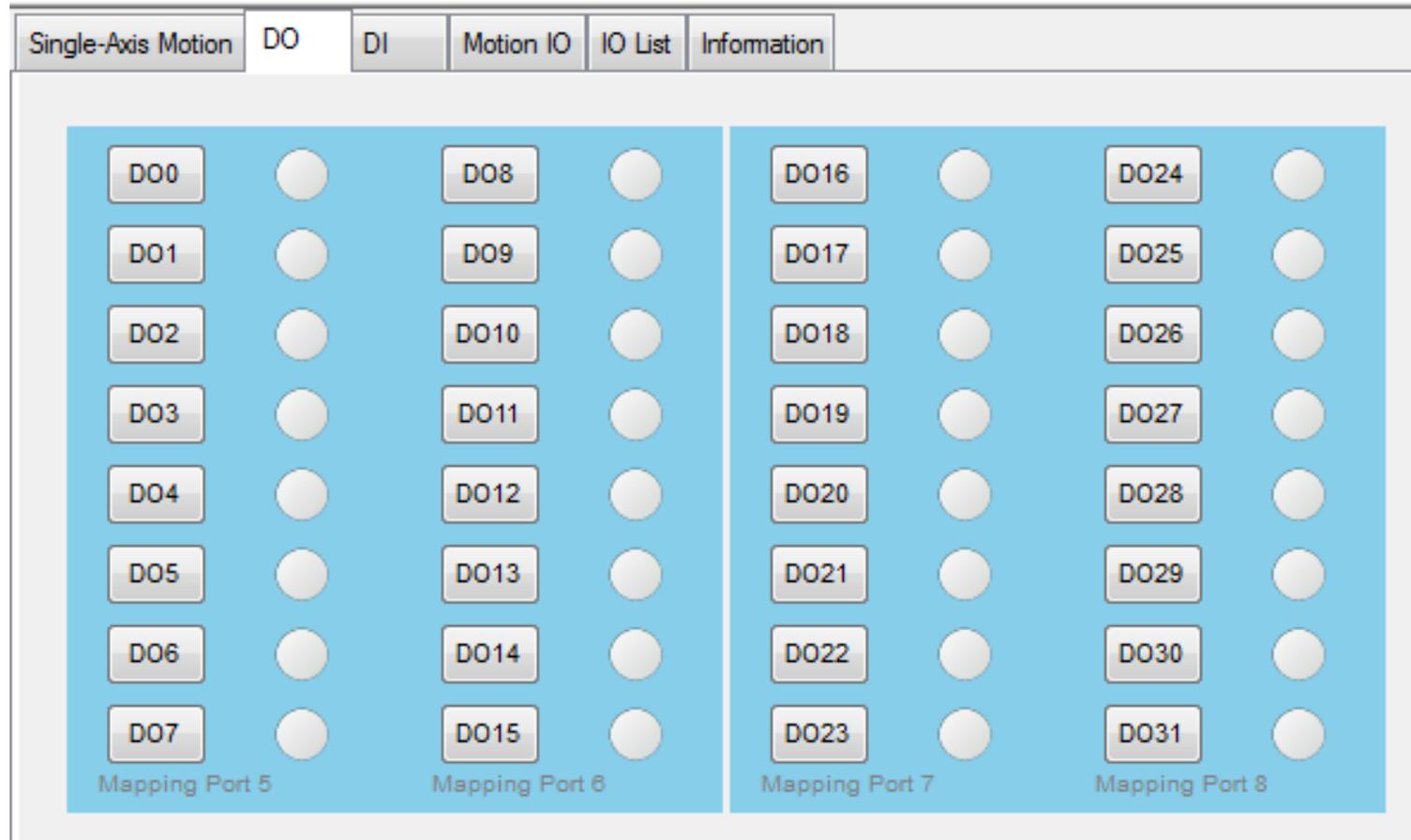
Program 구동

- Digital Input 기능을 통해 Input에 대한 Monitoring이 가능함 (실제 데모에서 Input 버튼을 누르면 I/O 모니터링 창에서 High/Low 정보 확인 가능)



Program 구동

- Digital Output 기능을 통해 Output에 대한 Monitoring이 가능함



Program 구동

- 각 Slave별 GUI에 들어 와서 이곳에 있는 Information을 확인하면 각 Slave의 ID를 변경할 수 있다

Single-Axis Motion DO DI Motion IO IO List Information

Slave Information

Vendor	Unknown (0xFA00000)
Device Name	Ezi-SERVO2 EtherCAT
Device Type	Unknown
ProductCode	0x00001002
Revision No	0x00000001
Serial No	0x00000000
ID No	0x <input type="text" value="200"/> <input type="button" value="Change ID"/>

Link

Port A: Port B:

Firmware

Current Firmware: 02.01.11

Firmware

Password

Program 구동

- 각 Slave별 GUI에 들어 와서 이곳에 있는 Information을 확인하면 각 Slave의 Firmware를 변경할 수 있다

Single-Axis Motion | DO | DI | Motion IO | IO List | Information

Slave Information

Vendor	Unknown (0xFA00000)
Device Name	Ezi-SERVO2 EtherCAT
Device Type	Unknown
ProductCode	0x00001002
Revision No	0x00000001
Serial No	0x00000000
ID No	0x <input type="text" value="200"/> <input type="button" value="Change ID"/>

Link

Port A: Port B:

Firmware

Current Firmware: **02.01.11**

Firmware

Password

Thank you!

