

## Product Line-up

# Ezi-POS<sup>®</sup>

## Servo Control System

EtherCAT<sup>®</sup>

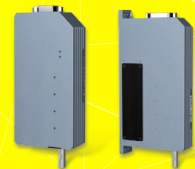
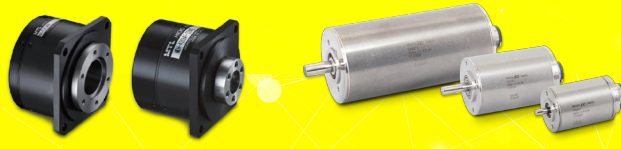
Ethernet

CC-Link I/TSN

PROFINET<sup>®</sup> PRODrive



**Ezi-POS<sup>®</sup>**  
Servo Control System



Fast Accurate Smooth Motion

# Ezi-POS<sup>®</sup>

## Servo Control System

EtherCAT<sup>®</sup>

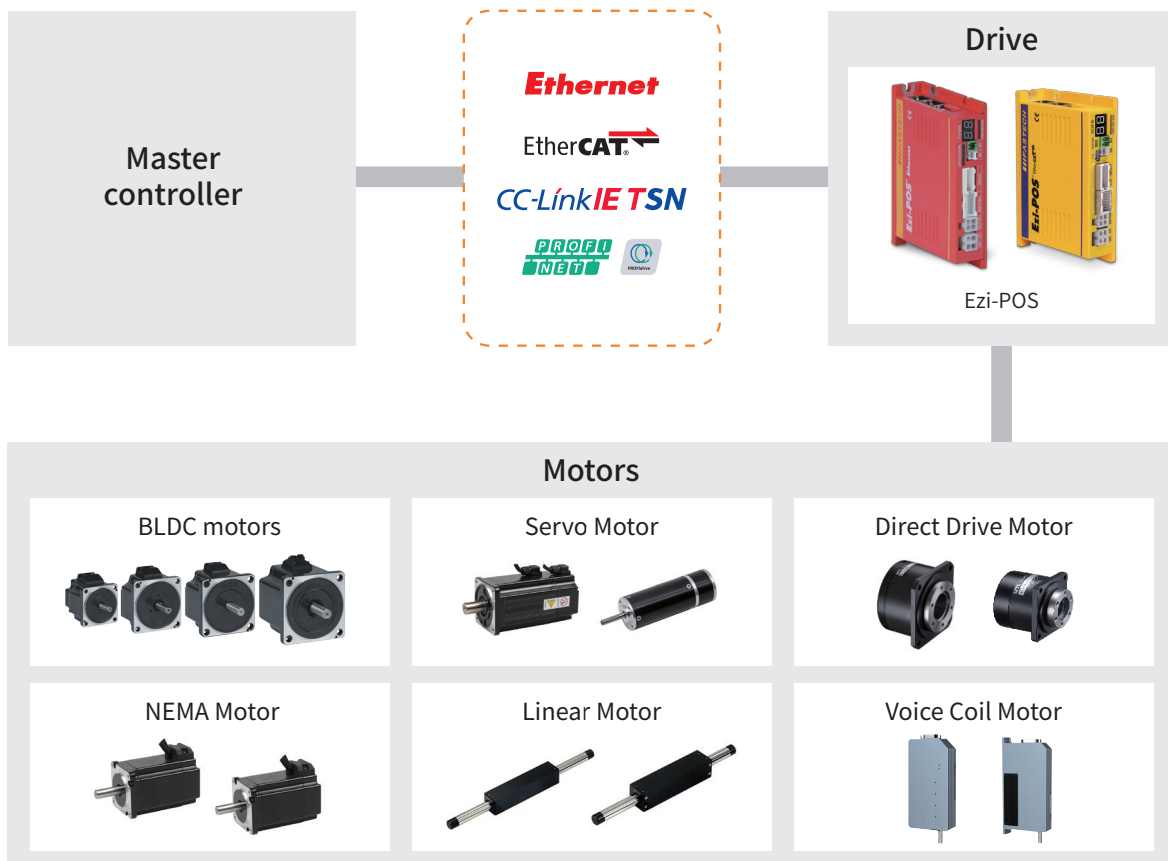
Ethernet

CC-Link IE TSN





PROFINET<sup>®</sup>



- Low-Voltage Servo Control System
- Compatible with Field Networks (Ethernet, EtherCAT, CC-Link IE TSN, PROFINET)
- DC Power Supply Input (DC 12 ~ 48 V)
- Auto-tuning
- Torque-Off Function
- Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)
- Various Position Sensor Options (Incremental/Absolute Encoders)



## Ezi-POS® Product Line-up

Product	Feature	Image
Ezi-POS Ethernet	<ul style="list-style-type: none"> <li>• Ethernet-compatible Low-Voltage Servo Control System</li> <li>• API for Windows/Linux</li> <li>• Embedded Motion Controller</li> <li>• Position Table</li> <li>• DC Power Supply Input (DC 12 ~ 48 V)</li> <li>• Auto-tuning</li> <li>• Torque-Off Function</li> <li>• Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)</li> <li>• Various Position Sensor Options (Incremental/Absolute Encoders)</li> </ul>	<p style="text-align: right;">P.4</p> 
Ezi-POS EtherCAT	<ul style="list-style-type: none"> <li>• EtherCAT-compatible Low-Voltage Servo Control System</li> <li>• CiA402 Drive Profile</li> <li>• DC Power Supply Input (DC 12 ~ 48 V)</li> <li>• Auto-tuning</li> <li>• Torque-Off Function</li> <li>• Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)</li> <li>• Various Position Sensor Options (Incremental/Absolute Encoders)</li> </ul>	<p style="text-align: right;">P.6</p> 
Ezi-POS CC-Link IE TSN	<ul style="list-style-type: none"> <li>• CC-Link IE TSN-compatible Low-Voltage Servo Control System</li> <li>• CiA402 Drive Profile</li> <li>• DC Power Supply Input (DC 12 ~ 48 V)</li> <li>• Auto-tuning</li> <li>• Torque-Off Function</li> <li>• Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)</li> <li>• Various Position Sensor Options (Incremental/Absolute Encoders)</li> </ul>	<p style="text-align: right;">P.8</p> 
Ezi-POS PROFINET	<ul style="list-style-type: none"> <li>• PROFINET-compatible Low-Voltage Servo Control System</li> <li>• RT(Realtime) &amp; IRT(Isochronous Realtime) Communication</li> <li>• PROFIdrive Motion Control (AC1, AC3, AC4)</li> <li>• Ezi-PROFINET (Windows Software Tool for SMART 'Commissioning &amp; Maintenance')</li> <li>• DC Power Supply Input (DC 12 ~ 48 V)</li> <li>• Auto-tuning</li> <li>• Torque-Off Function</li> <li>• Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)</li> <li>• Various Position Sensor Options (Incremental/Absolute Encoders)</li> </ul>	<p style="text-align: right;">P.10</p> 

# Ezi-POS<sup>®</sup> Ethernet

## Servo Control System

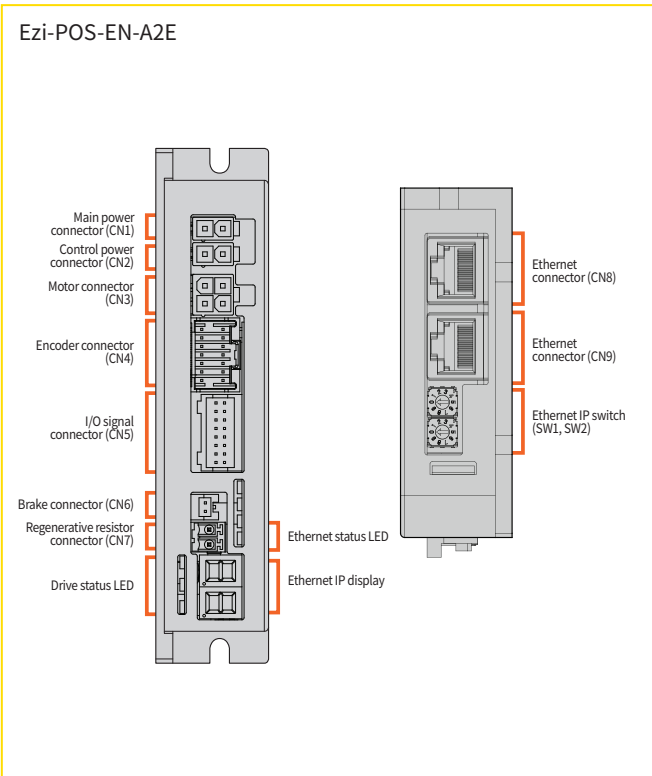
- Ethernet-compatible Low-Voltage Servo Control System
- API for Windows/Linux
- Embedded Motion Controller
- Position Table
- Auto-tuning
- Torque-Off Function
- Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)
- Various Position Sensor Options (Incremental/Absolute Encoders)



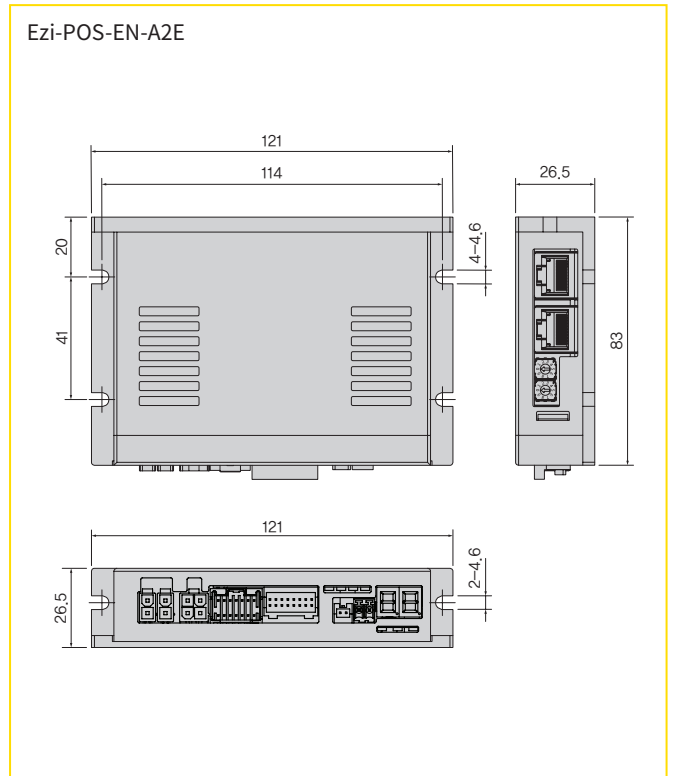
## Specifications

Model	Ezi-POS-EN-A2A	Ezi-POS-EN-A2E
Power Supply	DC 12 ~ 48V ± 10 %	
Input Current (continuous / max)	~7 A / 10 A (< 60 s)	
Output Power (continuous / max)	~200 W / 350 W (< 60 s)	
PWM Frequency	25 kHz or 50 kHz	
Current Control Sampling Rate	25 kHz (40 us)	
Position/Speed Control Sampling Rate	2.5 kHz (400 us)	
Speed Control Range	0 ~ 12,000 r/min	
Position Sensor	Absolute Encoder: BiSS-C, RS-485	Incremental Encoder: A, /A, B, /B, Z, /Z
Digital Input	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN), 2 programmable inputs	
Digital Output	1 dedicated output (Compare Out), 2 programmable outputs	
Torque-Off Function	2 inputs (TQOFF1, TQOFF2)	
Additional I/O	Brake	Dedicated connector for external brake
	Regeneration Resistor	Dedicated connector for external regenerative resistor
Ethernet	Specification	100Base-TX
	User Interface Program	GUI for Windows 7 and above
	Motion API	Motion library for Windows / Linux

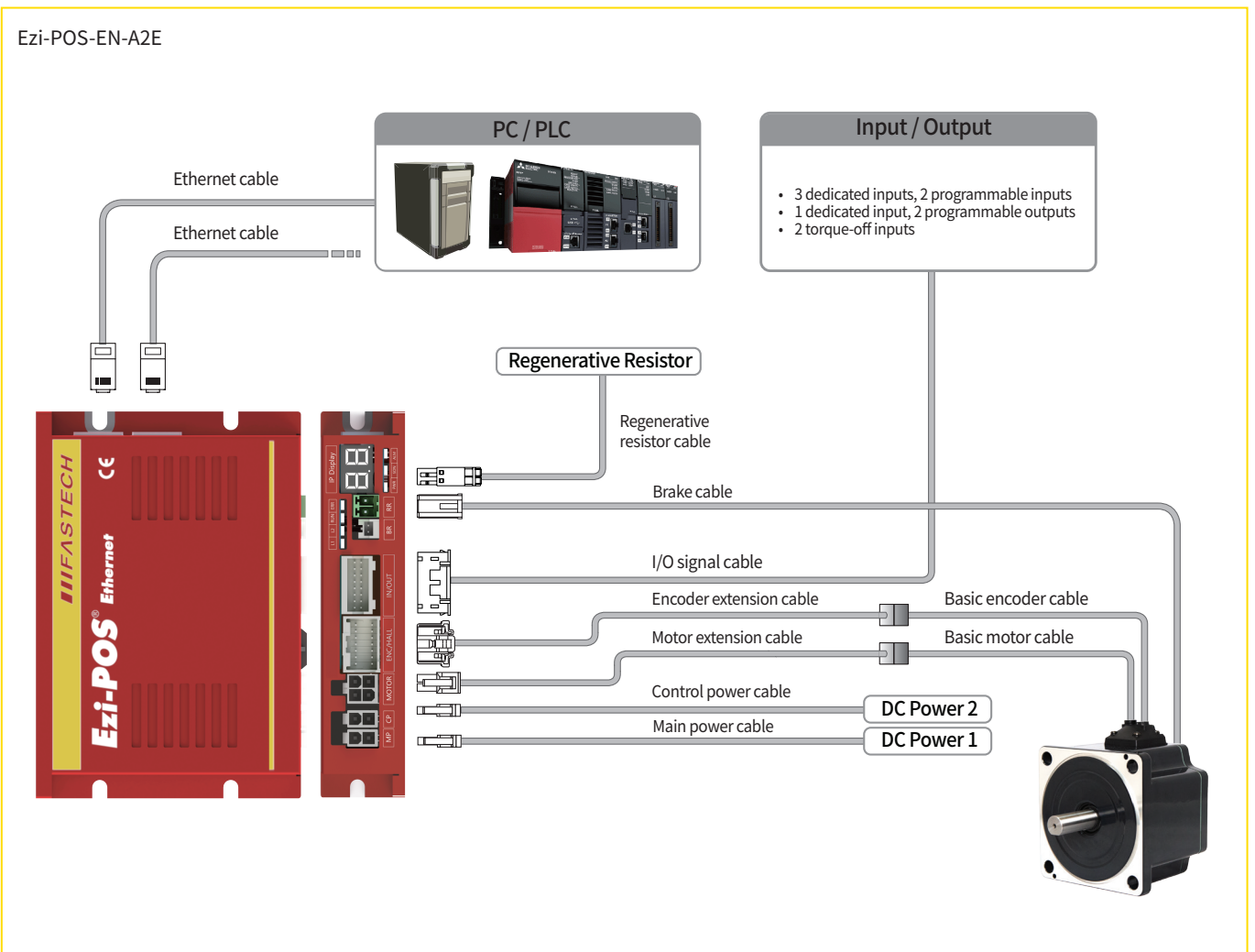
## Module Overview



## Dimension



## System Configuration



# Ezi-POS<sup>®</sup> EtherCAT<sup>®</sup>

## Servo Control System

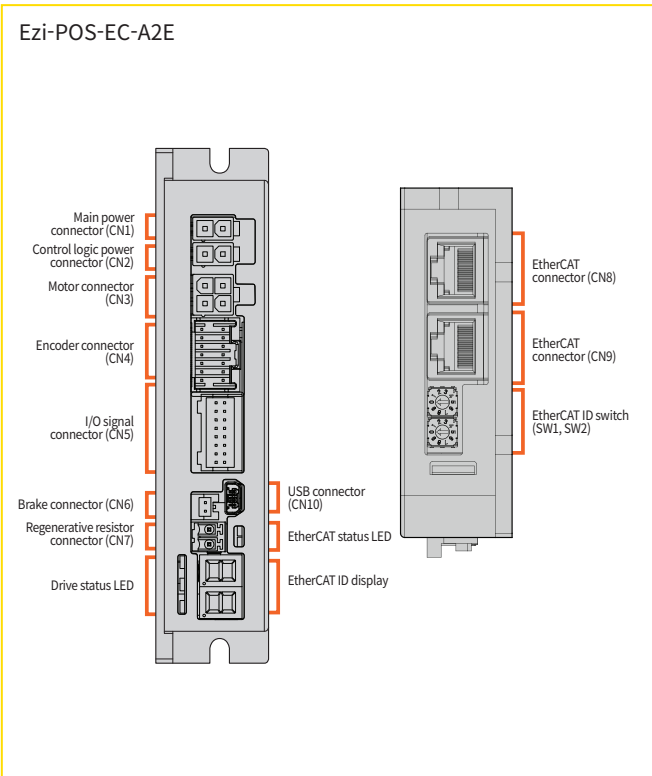
- EtherCAT-compatible Low-Voltage Servo Control System
- CiA402 Drive Profile
- DC Power Supply Input (DC 12 ~ 48 V)
- Auto-tuning
- Torque-Off Function
- Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)
- Various Position Sensor Options (Incremental/Absolute Encoders)



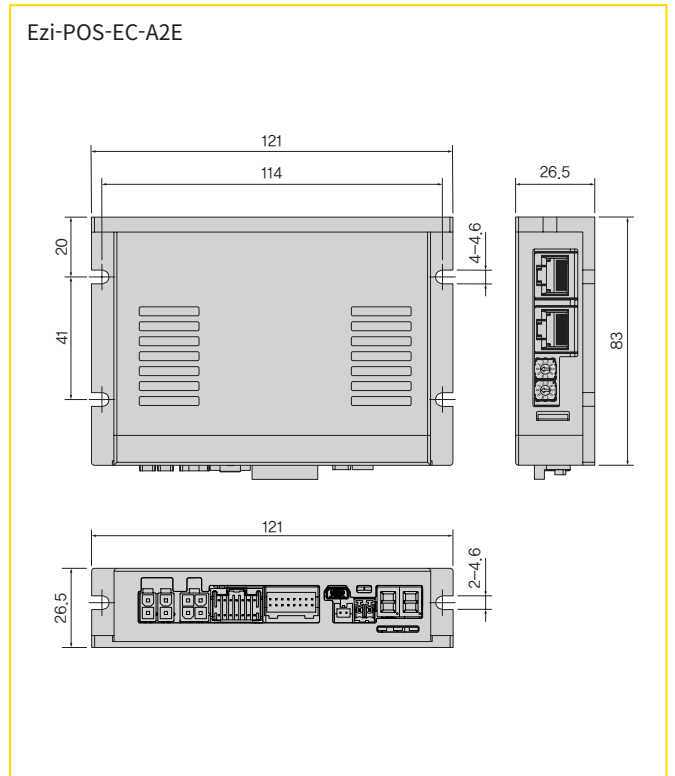
## Specifications

Model	Ezi-POS-EC-A2A	Ezi-POS-EC-A2E
Power Supply	DC 12 ~ 48 V $\pm$ 10 %	
Input Current (continuous / max)	~7 A / 10 A (< 60 s)	
Output Current (continuous / max)	~200 W / 350 W (< 60 s)	
PWM Frequency	25 kHz or 50 kHz	
Current Control Sampling Rate	25 kHz (40 us)	
Position/Speed Control Sampling Rate	2.5 kHz (400 us)	
Speed Control Range	0 ~ 12,000 r/min	
Position Sensor	Absolute Encoder: BiSS-C, RS-485	Incremental Encoder: A, /A, B, /B, Z, /Z
Digital Input	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) and 2 user inputs	
Digital Output	3 user outputs	
Torque-Off Function	2 inputs (TQOFF1, TQOFF2)	
Additional I/O	Brake	Dedicated connector for external brake
	Regeneration Resistor	Dedicated connector for external regenerative resistor
EtherCAT	Communication Protocol	CoE (CiA402 Drive Profile), FoE (Firmware Download)
	Operation Mode	CiA402 Drive Profile : Cyclic Synchronous Position Mode (CSP) Profile Position Mode (PP) Homing Mode (HM)
	Synchronization	Free Run, SM Event, DC SYNC Event

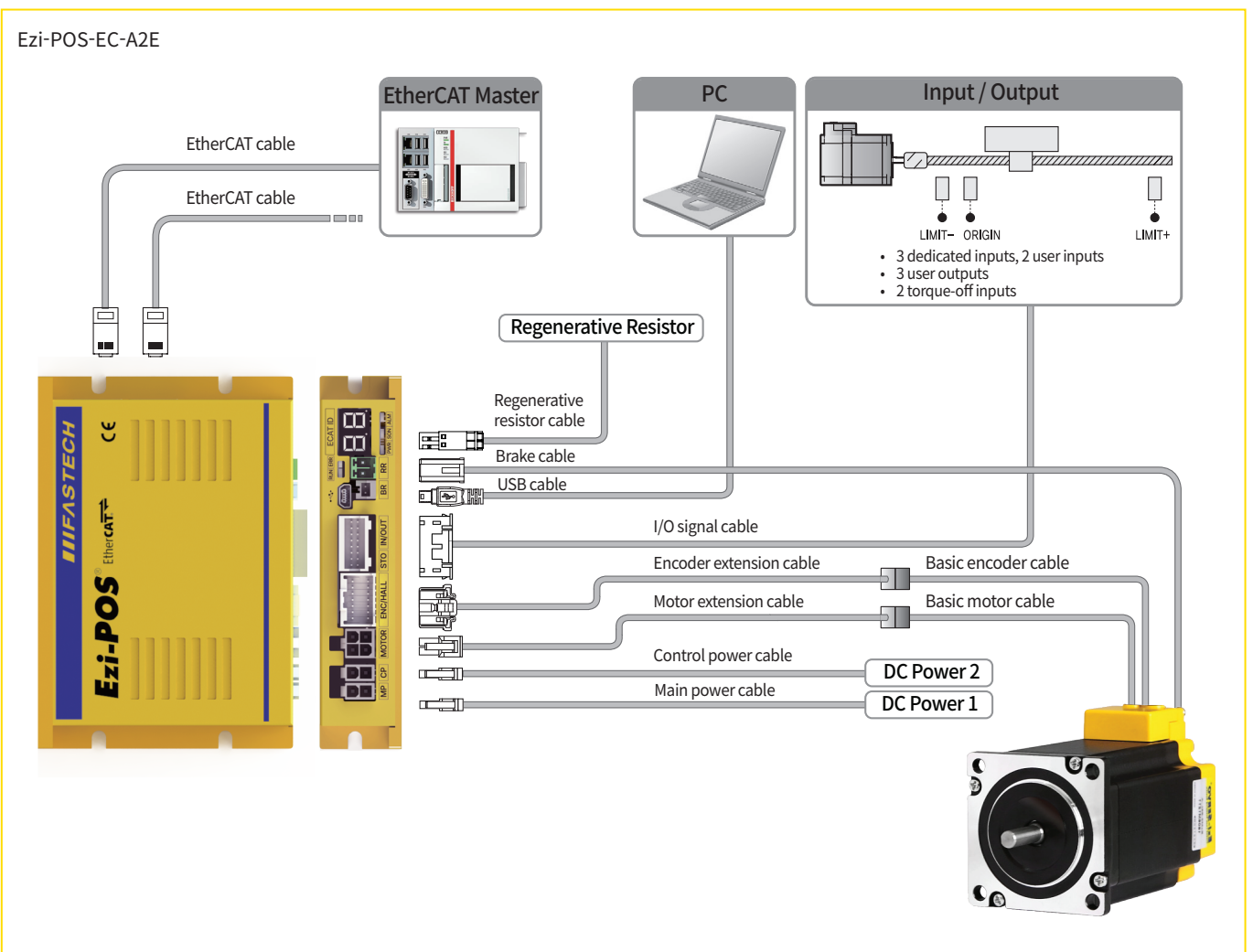
## Module Overview



## Dimension



## System Configuration



# Ezi-POS<sup>®</sup> CC-Link IE TSN

## Servo Control System

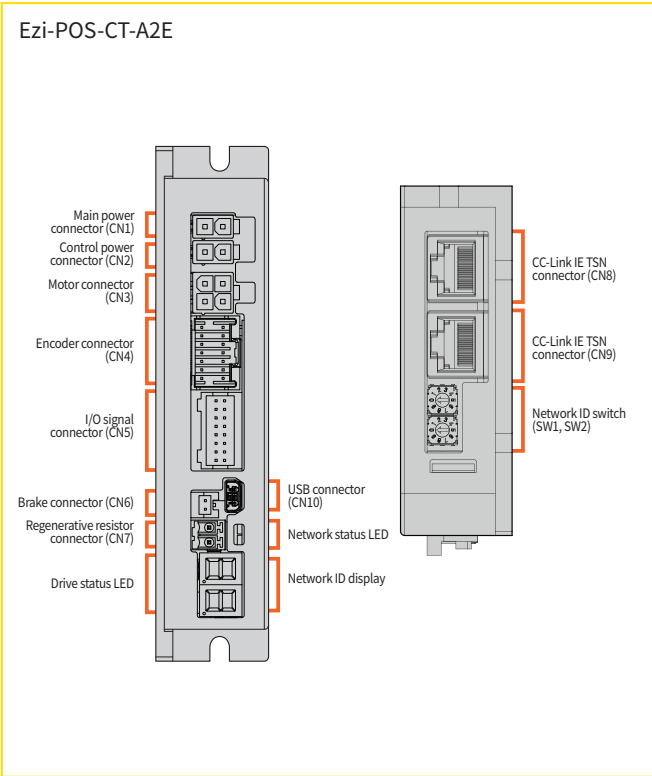
- CC-Link IE TSN-compatible Low-Voltage Servo Control System
- CiA402 Drive Profile
- DC Power Supply Input (DC 12 ~ 48 V)
- Auto-tuning
- Torque-Off Function
- Various Motor Options (BLDC Motor, Servo Motor, Linear Motor, VCM, etc)
- Various Position Sensor Options (Incremental/Absolute Encoders)



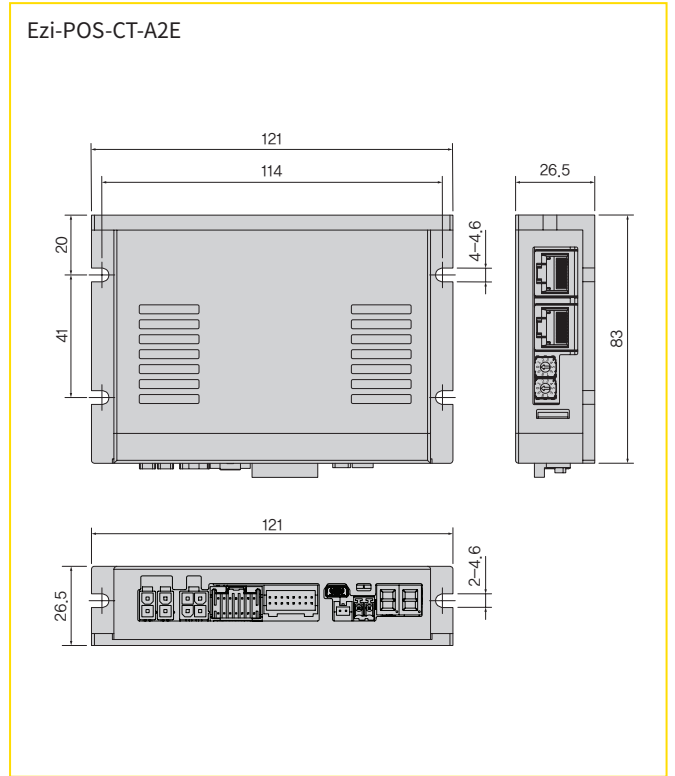
## Specifications

Model	Ezi-POS-CT-A2A	Ezi-POS-CT-A2E
Power Supply	DC 12 ~ 48 V $\pm$ 10 %	
Input Current (continuous / max)	~7 A / 10 A (< 60 s)	
Output Power (continuous / max)	~200 W / 350 W (< 60 s)	
PWM Frequency	25 kHz or 50 kHz	
Current Control Sampling Rate	25 kHz (40 $\mu$ s)	
Position/Speed Control Sampling Rate	2.5 kHz (400 $\mu$ s)	
Speed Control Range	0 ~ 12,000 r/min	
Position Sensor	Absolute Encoder: BiSS-C, RS-485	Incremental Encoder: A, /A, B, /B, Z, /Z
Digital Input	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN), 2 user inputs	
Digital Output	3 user outputs	
Torque-Off Function	2 inputs (TQOFF1, TQOFF2)	
Additional I/O	Brake	Dedicated connector for external brake
	Regeneration Resistor	Dedicated connector for external regenerative resistor
CC-Link IE TSN	Communication Protocol	CC-Link IE TSN Class B
	Operation Mode	CiA402 Drive Profile : Cyclic Synchronous Position Mode (CSP) Profile Position Mode (PP) Homing Mode (HM)
	Synchronization	Minimum Cycle Time: 250 $\mu$ s / Synchronous Comm. (CSP, PP, HM) / Asynchronous Comm. (PP, HM)

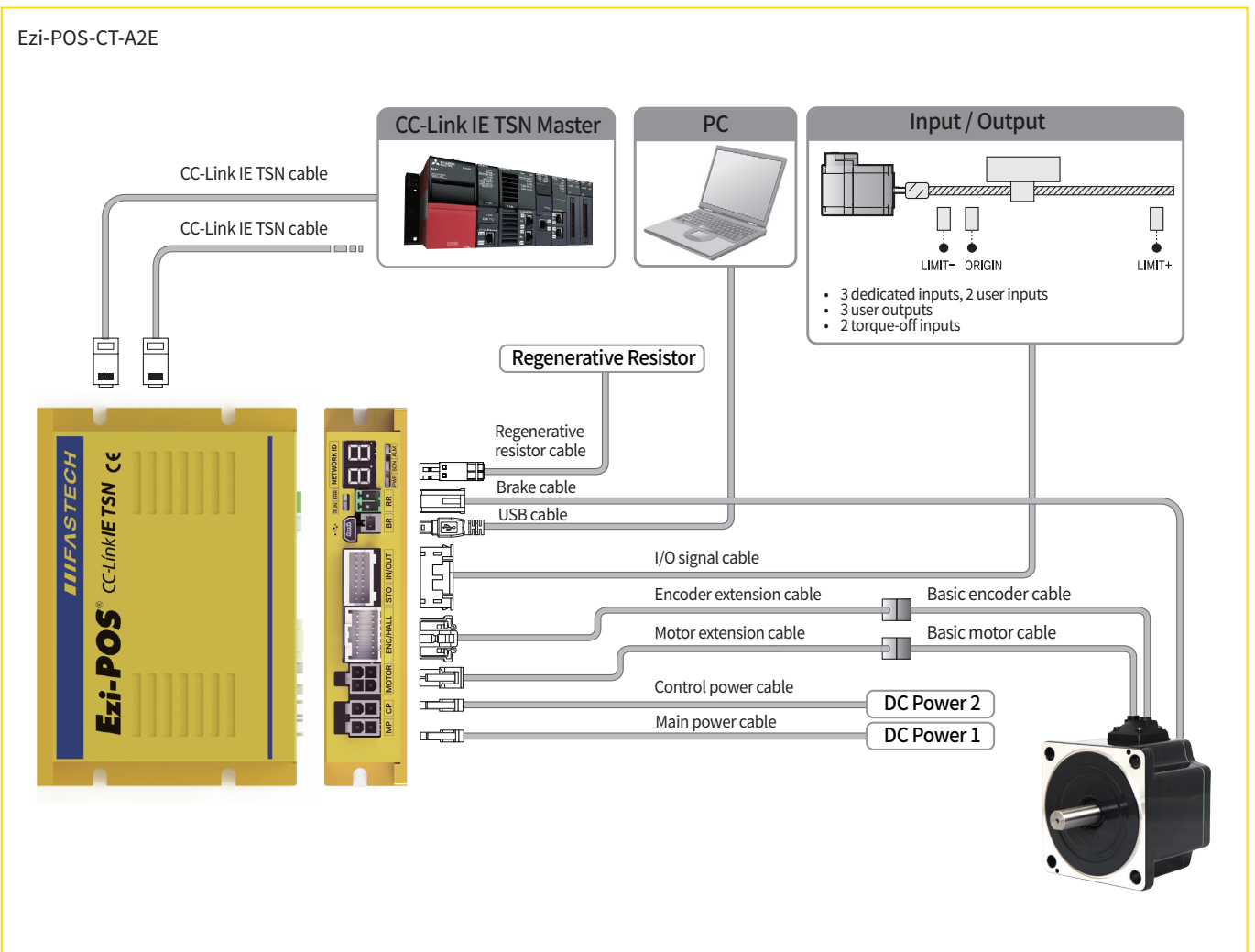
## Module Overview



## Dimension



## System Configuration



# Ezi-POS<sup>®</sup>



## Servo Control System

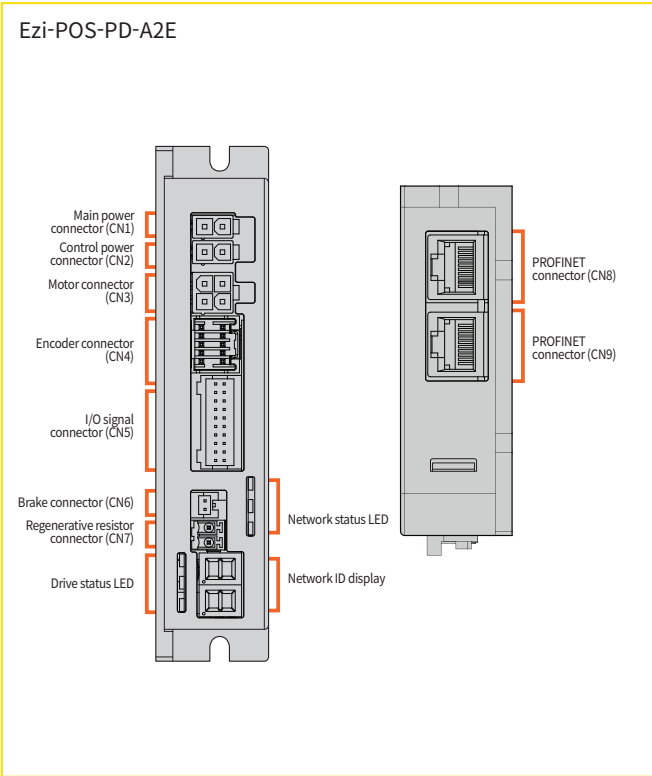
- PROFINET-compatible Low-Voltage Servo Control System
- RT(Realtime) & IRT(Isochronous Realtime) Communication
- PROFIdrive Motion Control (AC1, AC3, AC4)
- Ezi-PROFINET (Windows Software Tool for SMART 'Commissioning & Maintenance')
- DC Power Supply Input (DC 12 ~ 48 V)
- Auto-tuning
- Torque-Off Function
- Various Motor Options(BLDC Motor, Servo Motor, Linear Motor, VCM, etc)
- Various Position Sensor Options (Incremental/Absolute Encoders)



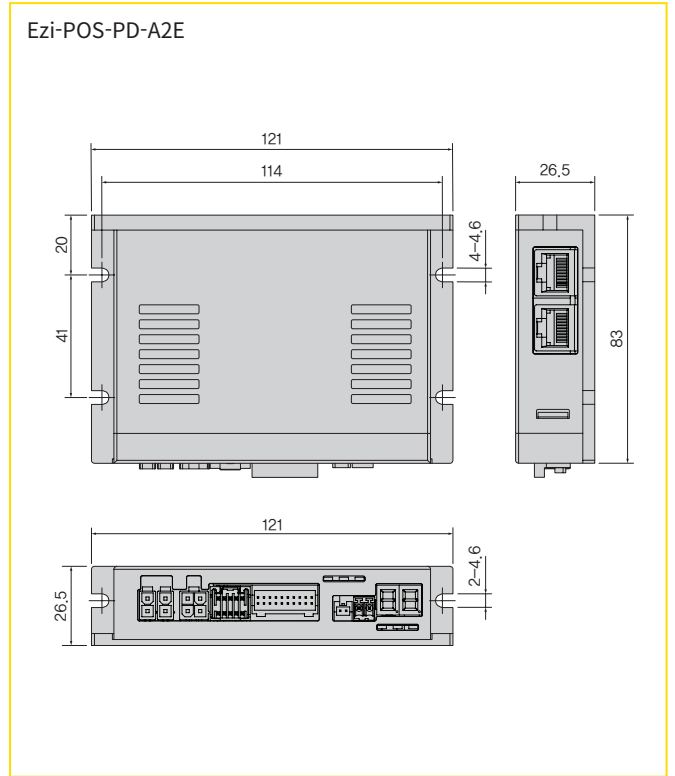
## Specifications

Model	Ezi-POS-PD-A2A	Ezi-POS-PD-A2E
Power Supply	DC 12 ~ 48V ± 10 %	
Input Current (continuous / max)	~7 A / 10 A (< 60 s)	
Output Power (continuous / max)	~200 W / 350 W (< 60 s)	
PWM Frequency	25 kHz or 50 kHz	
Current Control Sampling Rate	25 kHz (40 us)	
Position/Speed Control Sampling Rate	2.5 kHz (400 us)	
Speed Control Range	50 ~ 4,000 r/min	
Sensor	Absolute Encoder: BiSS-C, RS-485	Incremental Encoder: A, /A, B, /B, Z, /Z
Digital Input	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) and 2 user inputs	
Digital Output	3 user outputs	
Torque-OFF Function	2 inputs (TQOFF1, TQOFF2)	
Additional I/O	Brake	Dedicated connector for external brake
	Regeneration Resistor	Dedicated connector for external regenerative resistor
PROFINET PROFIdrive	Communication Protocol	RT(Realtime) & IRT(Isochronous Realtime)
	Operation Mode	PROFIdrive motion control : AC1 (Application Class 1) AC3 (Application Class 3) AC4 (Application Class 4)

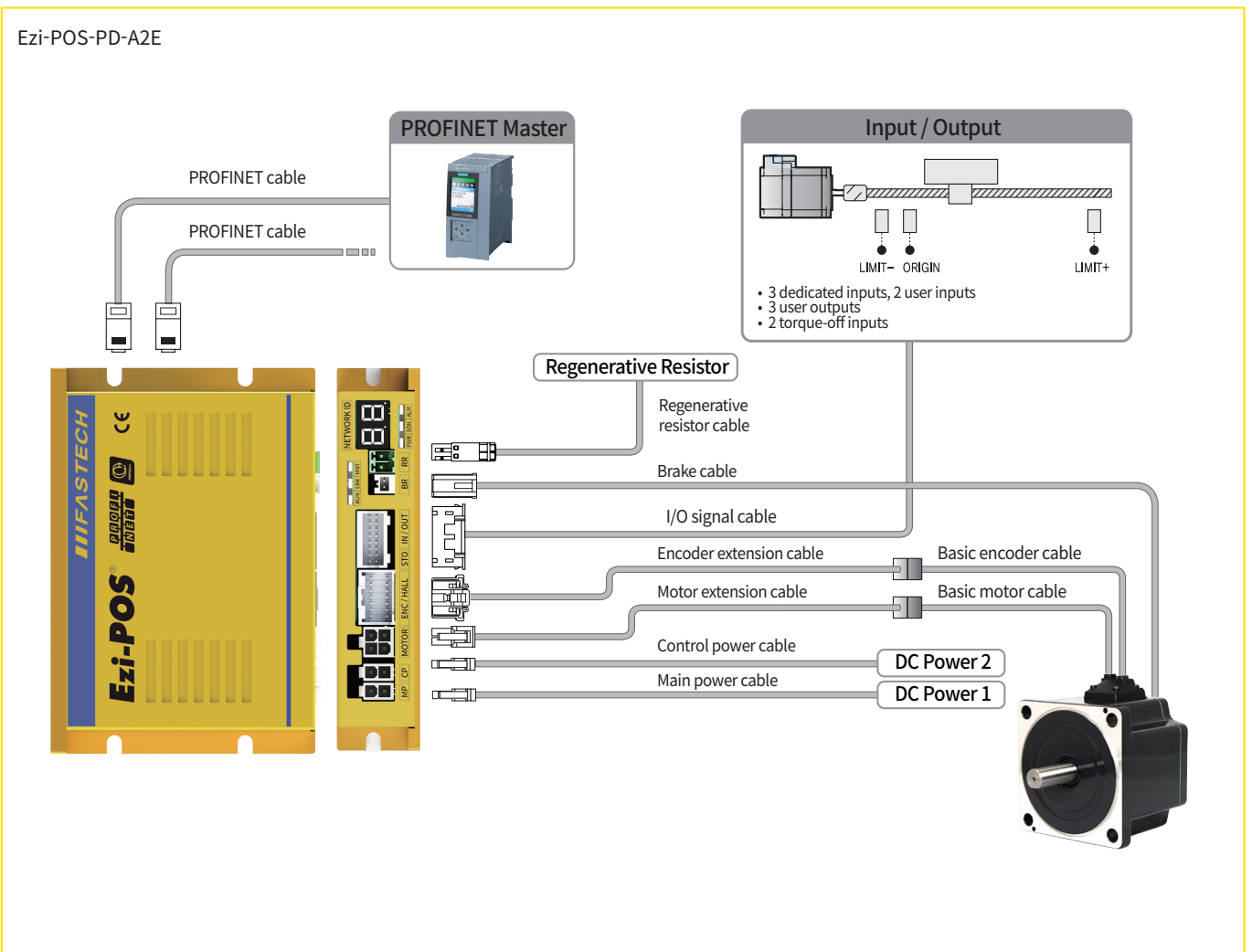
## Module Overview



## Dimension



## System Configuration





Fast Accurate Smooth Motion

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