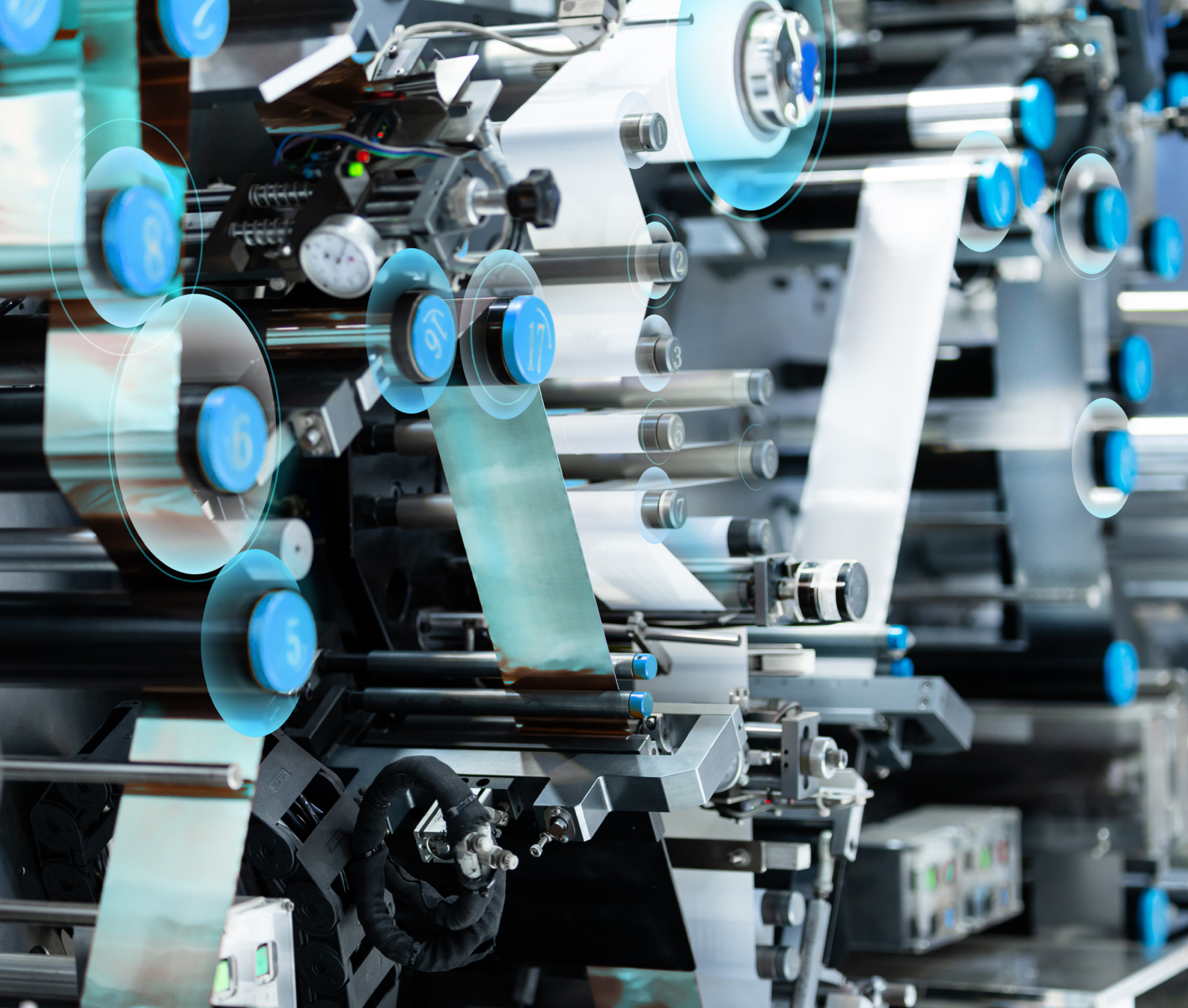




Digitized Automation for a Changing World

Delta Motion Control Solution AX Series



www.deltaww.com



Delta Motion Control Solution AX Series

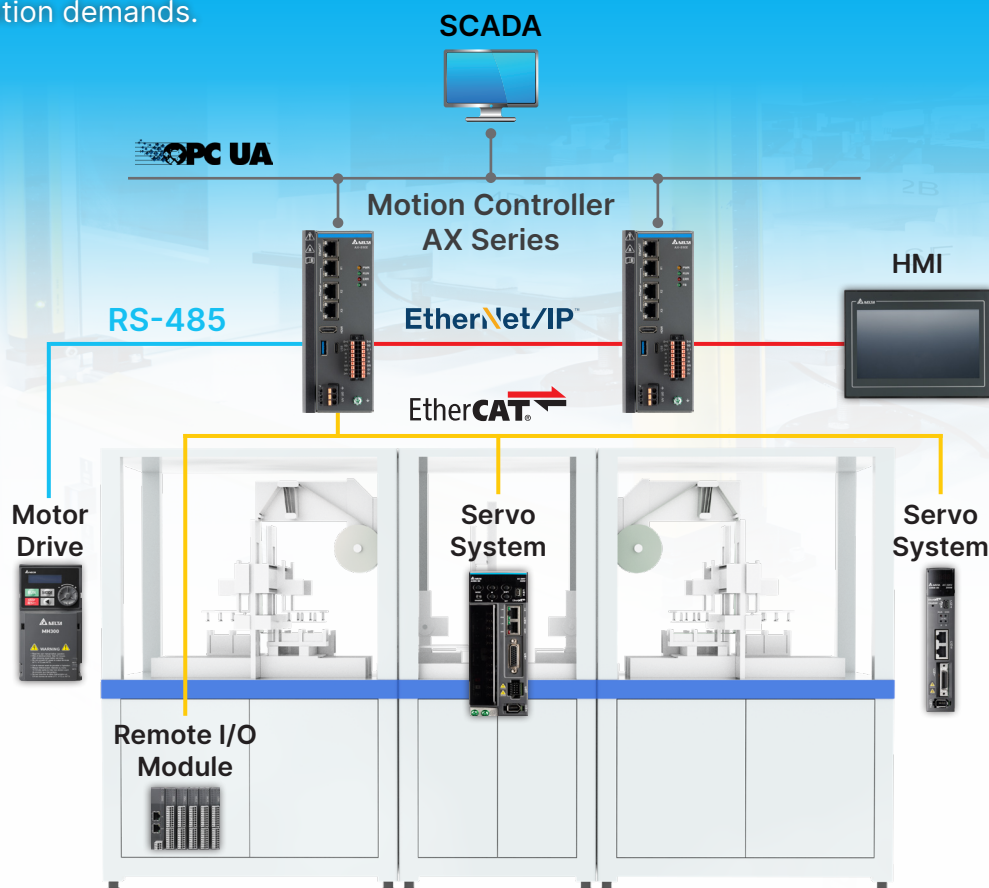
Automation and digitalization play important roles in smart manufacturing.

To enhance competitiveness, machine makers around the world are seeking solutions to facilitate quick expansion and save development time and labor.

Compliant with the IEC 61131-3 standard, the Delta Motion Control Solution AX Series offers a comprehensive development software platform to integrate PLCs, HMIs, servo drives, motor drives, and remote I/O modules for customized development, operation, and maintenance.

The AX Series supports EtherCAT communication for simultaneous control of various field devices, including Delta's AC Servo Drive ASDA-A3-E, ASDA-B3-E, High Performance Compact Drive MH300 Series, Compact Drive MS300 Series, and the General Vector Control Drive C2000 Plus Series. The solution also provides excellent remote I/O scalability with the Remote Module R1-EC, R2-EC and R3-C Series.

With its highly integrated offerings, Delta's versatile AX series can fulfill various application demands.





**Standalone
Motion Controller**

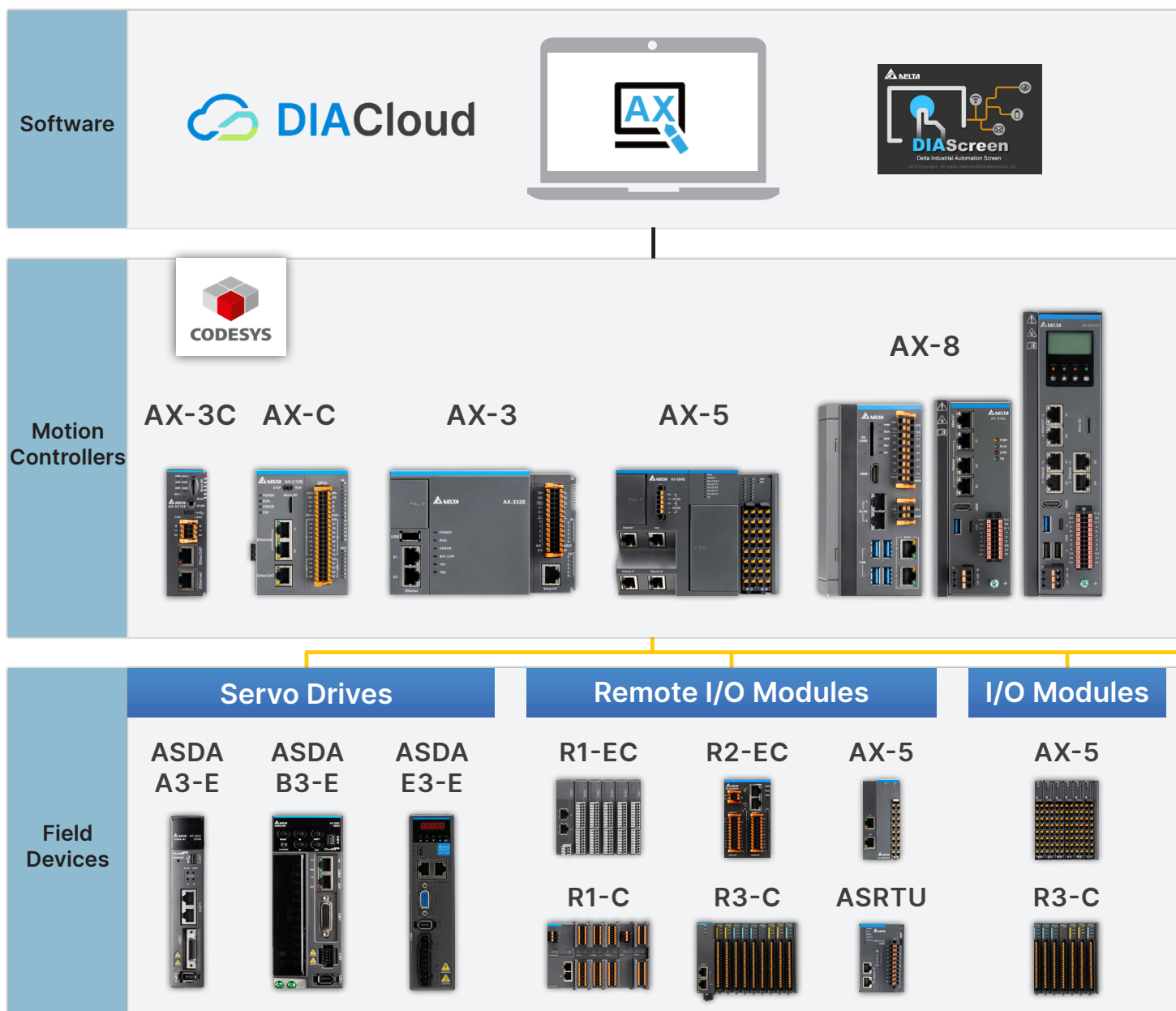
**PLC-Based
Motion Controller**

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Solution Architecture	10
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Delta Motion Control Solution AX Series





Solution Features

HMI



DOP-100



DOP-300

► Various programming languages:

Provides various programming languages that can be used simultaneously on projects, including

- Structured Language (ST)
- Ladder Diagram (LD)
- Sequential Function Chart (SFC)
- Function Block Diagram (FBD)
- Continuous Function Chart (CFC)

► Highly integrated software platform:

The integrated development platform optimizes project development efficiency and supports parameter reading, configuration, and PLCopen standard motion control language. Users can configure multiple projects and settings on the same platform and can quickly share tags with HMIs

► Comprehensive system solution:

Supports a variety of communication protocols and connects easily with servo drives, motor drives, remote modules and robotic arms as well as MES, SCADA, HMIs, and cloud services to build comprehensive systems

Motor Drives

C2000 Plus CH2000

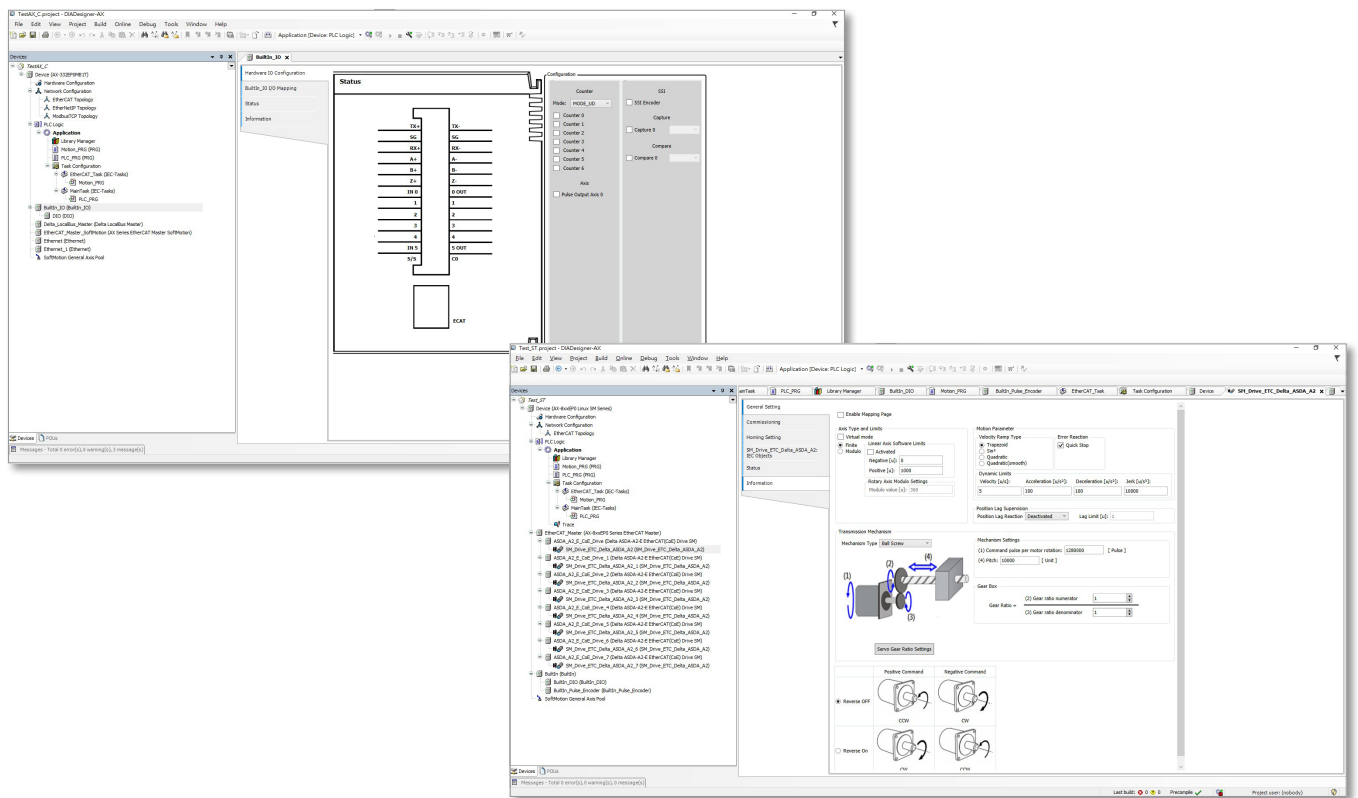
MH300 MS300



New Software Design Brings a More User-Friendly Interface

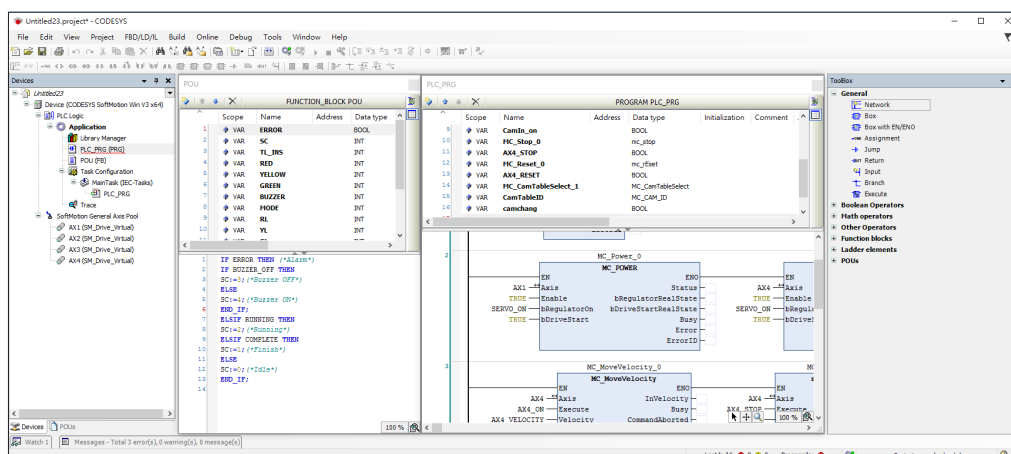
The new programming software DIADesigner-AX provides a friendly and versatile programming environment to reduce development time and costs

Software Interface of I/O Configuration & Axis Parameter Setting



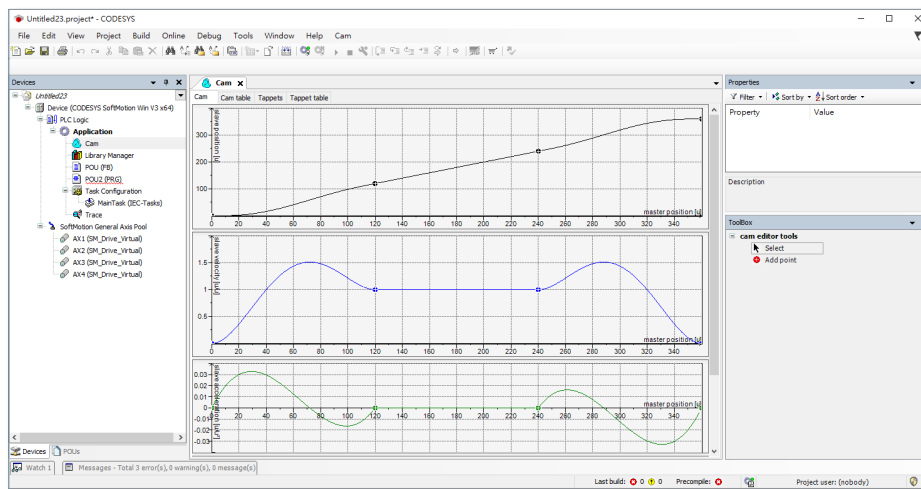
Standard IEC 61131-3 Programming

- Structured Text (ST)
- Ladder Programming (LD)
- Function Block Diagram (FBD)
- Sequential Function Chart (SFC)



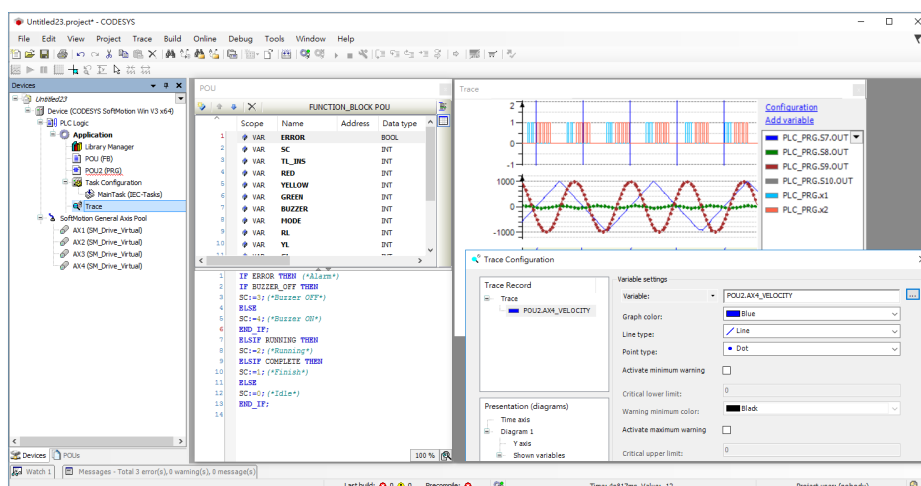
Motion Control Programming Software

- Supports single-axis and multi-axis motion (master/slave axis motion and CAM control)
- Adopts PLCopen certified POU libraries for programming
- Provides a graphical CAM programming interface



Tasks and Debugger

- Displays application data in SoftPLC and controller runtime simulation mode
- Enables users to monitor specific values in a watch list
- Supports reading, writing, and forced setting of variables in the editor
- Code can be executed in a single step or cycle





New Software Design Brings a More User-Friendly Interface

Features

- One single platform to create project programs from configuration to commissioning
- Supports IEC 61131-3 standard object-oriented programming and can integrate project functional programs
- Files can be directly integrated into the test library for easy development

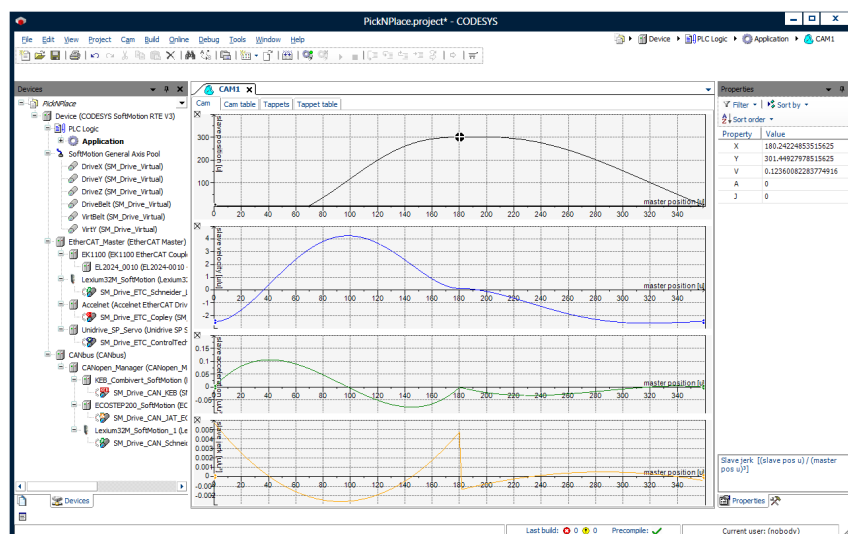
Benefits

Standard PLCopen Language

- Supports PLCopen motion control POU for single-axis or multi-axis control

Electronic CAM

- Supports electronic CAM synchronous motion control
- Provides a graphical electronic CAM programming interface





Features

- Highly compatible, can be deployed on multiple platforms and in various applications
- Modular design for multi-function expansion
- A simple user interface and customizable windows

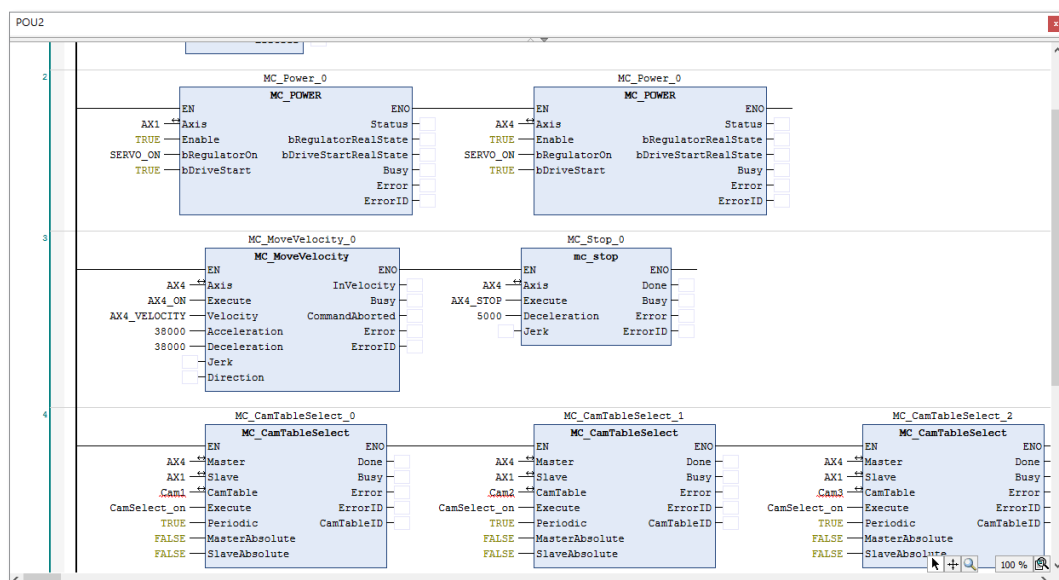
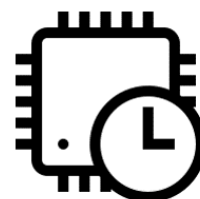
Benefits

Real-Time System

- Synchronizes 64 axes in 1 ms (real and virtual axes)

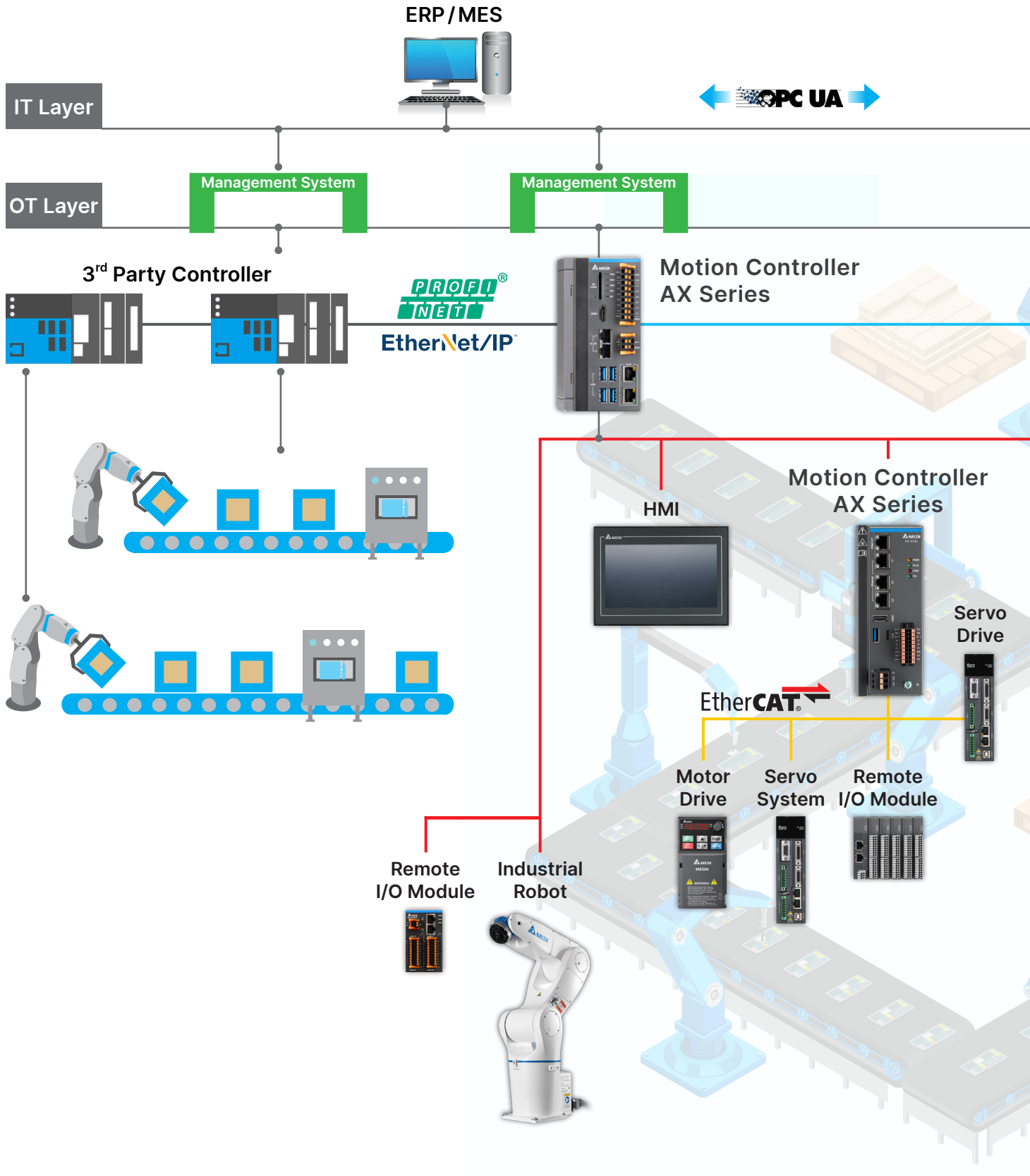
Multi-Axis Function Block

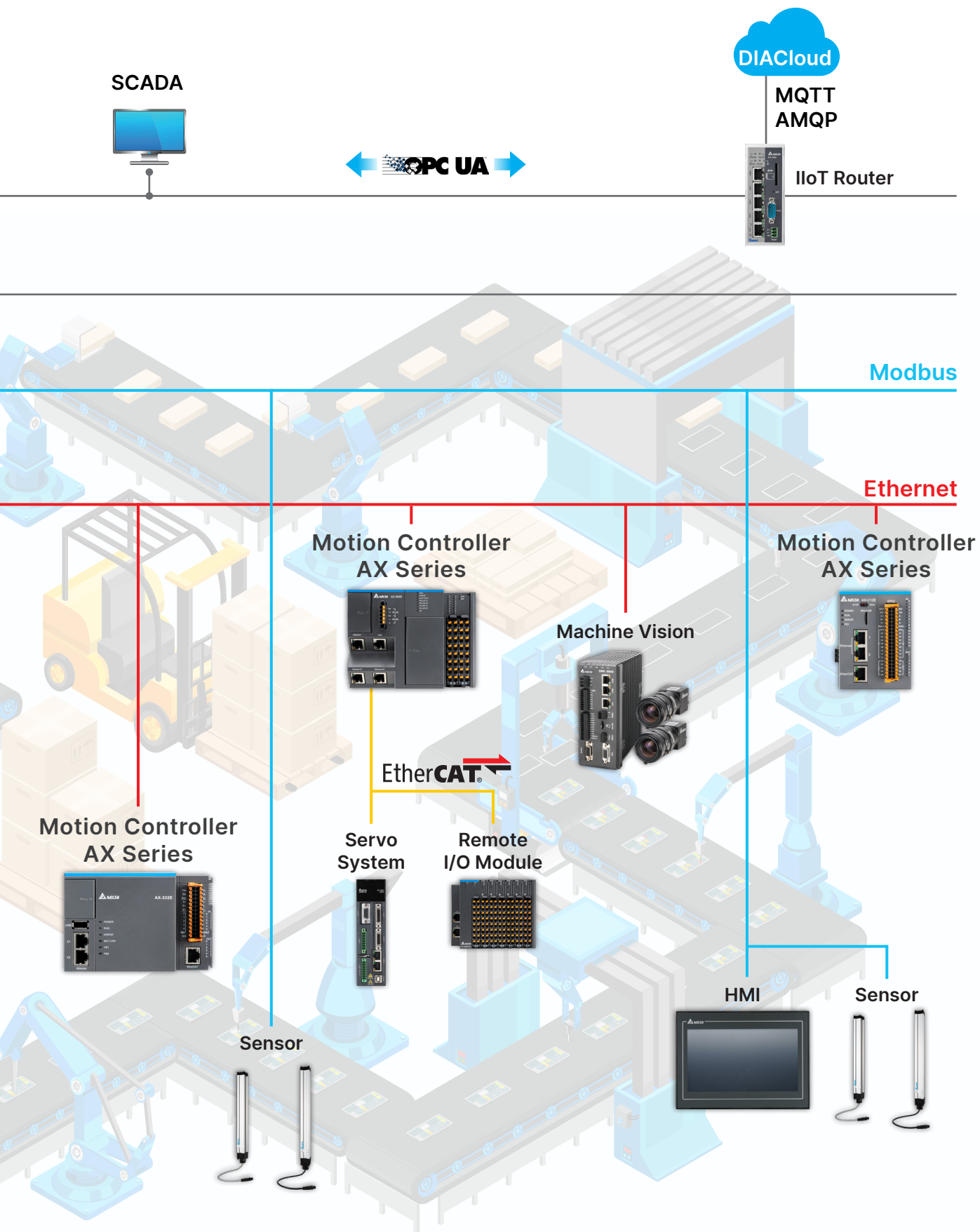
- Supports motion control function blocks compliant with the IEC 61131-3 standard



Solution Architecture

Creates Comprehensive Systems with Exceptional Interoperability





Hardware Specifications

Product Model		Standalone Motion Controller		
		AX-C12EB0MD1T	AX-8__EP0_B1_	AX-8__EP0_E1_
				
Processor	CPU	Cortex-A7, 1.0 GHz	Intel® Celeron J1900 2.0 GHz Quad. Core	
	Memory	DDR4-SDRAM 1 GB	DDR3L-1333 4 GB	DDR3L-1333 2 GB
	Retain Memory	896 KB	96 KB	
Monitor	Display Type	N/A	HDMI 1.4a ×1	
Number of Controllable Axes		12: 12 Axes	16: 16 Axes, 32: 32 Axes, 64: 64 Axes	
DO Output Type		T: NPN	T: NPN, P: PNP	
Software and Firmware Version	Motion Function	PLCopen Part1, Part2 Multi-axis Interpolation	PLCopen Part1, Part2 Multi-axis Interpolation CNC & Robotic (Advanced Type)	
	Operating System	N/A	Win10 IoT 64-bit, Linux	
	Visualization	N/A	Delta HMI CODESYS Target Visualization	
Communication Interface	Ethernet I/F	IEEE 802.3 / 802.3u / 802.3ab 1 Gbps ×2		
	FieldBus I/F	EtherCAT ×1		
	USB	N/A	USB 2.0 ×4	
	Serial Port	Isolated RS-485 ×1	Isolated RS-485/422 ×1	
Expansion Interface	Specifications	SD Card Slot ×1		
Storage Device	HDD	N/A	M.2 Module ×1 (Built-in SSD 32 G)	EMMC 8 GB
	Program Capacity	128MB	1G	
Power Supply	Input Voltage	24 V _{DC} (-15 % ~ +20 %)		
	Rated Power	10 W (24 V/0.41 A)	28.8 W (24 V/1.2 A)	
	RTC Backup Battery	N/A	3V CR2032 Lithium Battery×1 for BIOS	
Dimensions	Size (W×H×D)	100 × 73 × 100 mm	54.2 × 141 × 137.5 mm	
	Weight	360 g	750 g	
I/O	In/Out	131,072 bytes/131,072 bytes		
Instruction Processing Speed	LD Instruction	5.629 ns	1.573 ns	
	Math Instruction	66.81 ns	1.660 ns	
Environment	Operating Temp.	-20 ~ 55 °C	0 ~ 50 °C	
	Storage Temp.	-40 ~ 80 °C	-20 ~ 70 °C	
	Humidity	5 ~ 95 % RH (Non-Condensing)		
	Vibration Test	Sine Wave 5 Hz ≤ f ≤ 8.4 Hz ; Displacement 3.5 mm ; 8.4 Hz ≤ f ≤ 150 Hz, 1G Acceleration		
	Shock Test	Half Sine Wave Peak 15 g, 11 ms Duration		
	Protection Level	IP20		
	Certification	CE, UL		

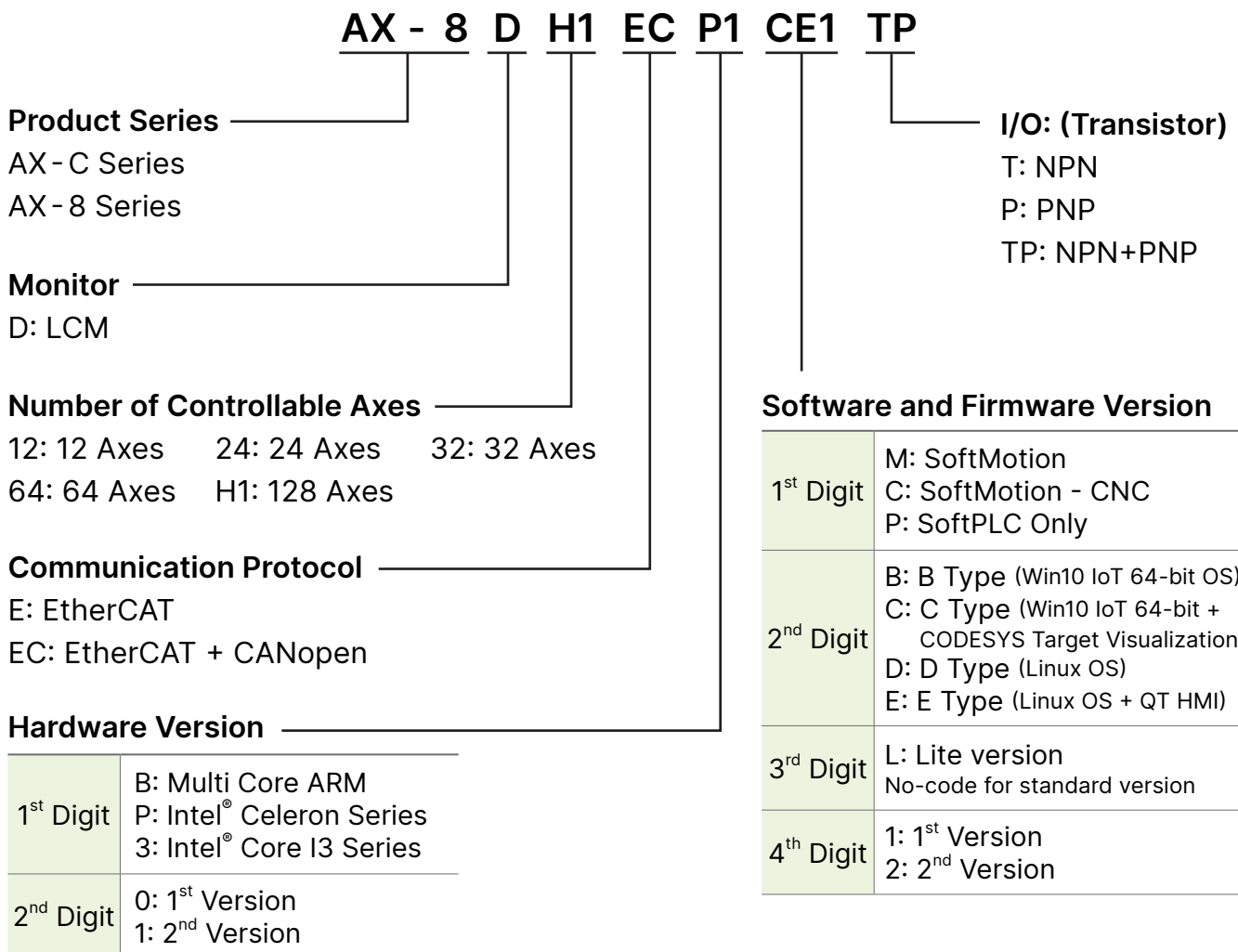
Product Model		Standalone Motion Controller		
		AX-8H1E30CD2T	AX-8__EP1ME1TP	AX-8D__ECP1_E1TP
				
Processor	CPU	Intel® I3 Tiger Lake UP3 Dual Core 3.00GHz	Intel® Celeron Series	
	Memory	LPDDR4X 4 GB	DDR4 4GB	
	Retain Memory	4 MB	15 MB	
Monitor	Display Type	HDMI 2.0 × 1	HDMI 1.4 × 1	
Number of Controllable Axes		128 Axes	64: 64 Axes, 16: 16 Axes	H1: 128 Axes, 32: 32 Axes
DO Output Type		NPN	PNP / NPN (Switchable)	
Software and Firmware Version	Motion Function	PLCopen Part1, Part2 Multi-axis Interpolation CNC & Robotic (Advanced Type)	PLCopen Part1, Part2 Multi-axis Interpolation	PLCopen Part1, Part2 Multi-axis Interpolation CNC & Robotic (Advanced Type)
	Operating System	Linux		
	Visualization	N/A	Delta HMI	
Communication Interface	Ethernet I/F	IEEE 802.3/802.3u/802.3ab 2.5Gbps × 2	IEEE 802.3/802.3u/ 802.3ab 1Gbps	
	FieldBus I/F	EtherCAT × 2	EtherCAT × 1	EtherCAT × 2
	USB	USB 3.0 × 4	USB 3.0 × 1, Type C × 1	USB 3.0 × 1, USB 2.0 × 2 Type C × 1
	Serial Port	Isolated RS-485 × 1	Isolated RS-485 × 2	
Expansion Interface	Specifications	SD Card Slot × 1	N/A	Micro SD Card Slot × 1
Storage Device	HDD	M.2 SATA 32GB × 1	M.2 Module × 1 (Built-in SSD 32 G)	
	Program Capacity	512 MB	1GB	
Power Supply	Input Voltage	24 V _{DC} (-15% ~ +20%)		
	Rated Power	72W (24V/3A)	90W (24V/3.75A)	
	RTC Backup Battery	N/A	3V CR2032 Lithium Battery×1 for BIOS	
Dimensions	Size (W×H×D)	77.7 × 141.5 × 140.5 mm	63 × 160 × 160 mm	63 × 225 × 163 mm
	Weight	1,000 g	1,800 g	2,800 g
Instruction Processing Speed	LD Instruction	0.4 ns		
	Math Instruction	0.4 ns	0.6 ns	
Environment	Operating Temp.	0 ~ 50℃		
	Storage Temp.	-20 ~ 70℃	-40 ~ 70℃	
	Humidity	5 ~ 95% RH (Non-Condensing)		
	Vibration Test	Sine Wave 5 Hz ≤ f ≤ 8.4 Hz ; Displacement 3.5 mm ; 8.4 Hz ≤ f ≤ 150 Hz, 1G Acceleration		
	Shock Test	Half Sine Wave Peak 15g, 11ms Duration		
	Protection Level	IP20		
	Certification	CE, UL		

Hardware Specifications

Product Model		PLC-Based Motion Controller			
		AX-3C_EB0MBL1	AX-332E	AX-5_EB0MB1T/P	AX-564ELB0MB1T/P
					
Processor	CPU	Cortex-A35, Dual, 800 MHz	Intel® Celeron J1900 2.0 GHz Quad. Core	N/A	
	Memory	DDR3L-1066 256 MB	DDR3L-1333 2 GB	N/A	
	Retain Memory	128 KB	2 MB	N/A	
Monitor	Display Type	N/A			
Number of Controllable Axes		08: 8 Axes, 16: 16 Axes	32 Axes	16: 16 Axes, 32: 32 Axes, 64: 64 Axes	8 Axes
DO Output Type		N/A	NPN	T: NPN, P: PNP	
Software and Firmware Version	Motion Function	PLCopen Part1, Part2 Multi-axis Interpolation			PP Mode
	Operating System	N/A			
	Visualization	N/A			
Communication Interface	Ethernet I/F	IEEE 802.3/802.3u/802.3ab 100 MB bps × 2	IEEE 802.3/802.3u/802.3ab 1G bps (Intel I210IT) × 2	100BASE-TX/1000BASE-T Switch 100/1000 Mbps × 2	
	FieldBus I/F	EtherCAT × 1		Ethernet × 2 (dedicated IP), CANopen × 1, EtherCAT × 1	
	USB	USB 2.0 × 1 (Type C, Device only) Supports firmware upgrade and program upload/download	USB 2.0 × 1	USB-Type A × 1, Type C × 1	
	Serial Port	Non-isolated RS-485 × 2	Isolated RS-485/422 × 1	RS-485 × 1, RS-232 × 1	
Expansion Interface	Specifications	SD Card Slot × 1		Micro SD Card Slot (SDXC, 64 GB max/UHS-I)	
Storage Device	HDD	N/A			
	Program Capacity	16 MB	128 MB	64 MB	32 MB
Power Supply	Input Voltage	24 V _{DC} (-15 % ~ +20 %)			
	Rated Power	36 W	24 W	27 W	
	RTC Backup Battery	N/A	Please contact local distributors	N/A	
Dimensions	Size (W×H×D)	31 × 100 × 80 mm	135 × 88 × 100 mm	125 × 100 × 105 mm	
	Weight	125 g	390 g	560 g	
Instruction Processing Speed	LD Instruction	2.5 ns	1.6 ns	1 ns	
	Math Instruction	34.2 ns	1.6 ns	7 ns	
Environment	Operating Temp.	-20 ~ 55 °C	-20 ~ 50 °C	-20 ~ 60 °C	
	Storage Temp.	-40 ~ 80 °C	-40 ~ 80 °C	-40 ~ 85 °C	
	Humidity	5 ~ 95 % RH (Non-Condensing)			
	Vibration Test	Sine Wave 5 Hz ≤ f ≤ 8.4 Hz; Displacement 3.5 mm ; 8.4 Hz ≤ f ≤ 150 Hz, 1G Acceleration			
	Shock Test	Half Sine Wave Peak 15 g, 11 ms Duration			
	Protection Level	IP20			
	Certification	CE, UL			

Model Explanation

Standalone Motion Controller



Model Explanation

PLC-Based Motion Controller

(Support local I/O expansion on the right side of the controller)

AX-3C



AX-3



AX-5



AX - 3C 16 EC B0 MB1 T

Product Series

AX - 3C Series
AX - 3 Series
AX - 5 Series

Number of Controllable Axes

08: 8 Axes 16: 16 Axes
32: 32 Axes 64: 64 Axes

Communication Protocol

E: EtherCAT
EL: EtherCAT Delta Motion Light
EC: EtherCAT + CANopen

Hardware Version

1 st Digit	A: Single Core ARM B: Multi Core ARM P: Intel® Celeron Series
2 nd Digit	0: Built-in IO Version 0 1: Built-in IO Version 1

I/O: (Transistor)

T: NPN
P: PNP

Software and Firmware Version

1 st Digit	M: SoftMotion
2 nd Digit	B: Linux OS
3 rd Digit	L: Lite version No-code for standard version
4 th Digit	1: 1 st Version 2: 2 nd Version for specification application

Ordering Information

Standalone Motion Controller AX-C Series			
Model	Description	Model	Description
AX-C12EB0MD1T	Entry-Level Motion Controller (12 Axes/NPN)	AX-C12EB0CD1T	Entry-Level Motion Controller (12 Axes/NPN/CNC) Available in China, Turkey and India
AX-C24EB0MD1T	Entry-Level Motion Controller (24 Axes/NPN)		
Standalone Motion Controller AX-8 Series			
Model	Description	Model	Description
AX-816EP0MB1T	Basic Type Motion Controller (16 Axes/NPN)	AX-816EP0MB1P	Basic Type Motion Controller (16 Axes/PNP)
AX-816EP0ME1T	Basic Type Motion Controller (16 Axes/NPN)	AX-816EP0ME1P	Basic Type Motion Controller (16 Axes/PNP)
AX-816EP1ME1TP	Basic Type Motion Controller (16 Axes&NPN/PNP Switchable)	AX-816EP0CE1T	Advanced Type Motion Controller (16 Axes/NPN)
AX-816EP0CE1P	Advanced Type Motion Controller (16 Axes/PNP)	AX-832EP0MB1T	Basic Type Motion Controller (32 Axes/NPN)
AX-832EP0MB1P	Basic Type Motion Controller (32 Axes/PNP)	AX-832EP0ME1T	Basic Type Motion Controller (32 Axes/NPN)
AX-832EP0ME1P	Basic Type Motion Controller (32 Axes/PNP)	AX-832EP0CE1T	Advanced Type Motion Controller (32 Axes/NPN)
AX-832EP0CE1P	Advanced Type Motion Controller (32 Axes/PNP)	AX-8D32ECP1ME1TP	Advanced Type Motion Controller (32 Axes&NPN/PNP Switchable)
AX-864EP0MB1T	Basic Type Motion Controller (64 Axes/NPN)	AX-864EP0MB1P	Basic Type Motion Controller (64 Axes/PNP)
AX-864EP0ME1T	Basic Type Motion Controller (64 Axes/NPN)	AX-864EP0ME1P	Basic Type Motion Controller (64 Axes/PNP)
AX-864EP1ME1TP	Basic Type Motion Controller (64 Axes&NPN/PNP Switchable)	AX-864EP0CB1P	Advanced Type Motion Controller (64 Axes/PNP)
AX-864EP0CE1T	Advanced Type Motion Controller (64 Axes/NPN)	AX-864EP0CE1P	Advanced Type Motion Controller (64 Axes/PNP)
AX-864EP0MC1T	Basic Type Motion Controller (64 Axes/CODESYS TV/NPN)	AX-864EP0MC1P	Basic Type Motion Controller (64 Axes/CODESYS TV/PNP)
AX-864EP0CC1T	Advanced Type Motion Controller (64 Axes/CODESYS TV/NPN)	AX-8H1E30CD2T	Advanced Type Motion Controller (128 Axes/NPN)
AX-8DH1ECP1CE1TP	Advanced Type Motion Controller (128 Axes&NPN/PNP Switchable)		
PLC-Based Motion Controller AX-3C Series			
Model	Description	Model	Description
AX-3C08EB0MBL1	Entry-Level Motion Controller (8 Axes) Available in China, Turkey and India	AX-3C16EB0MBL1	Entry-Level Motion Controller (16 Axes) Available in China, Turkey and India
PLC-Based Motion Controller AX-3 Series			
Model	Description	Model	Description
AX-304ELA0PA1T	Basic Type Motion Controller (4 Axes P2P/NPN)	AX-304ELA0PA1P	Basic Type Motion Controller (4 Axes P2P/PNP)
AX-308EA0MA1T	Basic Type Motion Controller (8 Axes/NPN)	AX-308EA0MA1P	Basic Type Motion Controller (8 Axes/PNP)
AX-316EA0MA1T	Basic Type Motion Controller (16 Axes/NPN)	AX-332EP0MB1T	Basic Type Motion Controller (32 Axes/NPN)
AX-364ELA0MA1T	Basic Type Motion Controller (64 Axes P2P/NPN)		
PLC-Based Motion Controller AX-5 Series			
Model	Description	Model	Description
AX-564ELB0MB1T	Program Capacity 32 MB (8 Axes/NPN/PP Mode×64)	AX-564ELB0MB1P	Program Capacity 32 MB (8 Axes/PNP/PP Mode×64)
AX-516EB0MB1T	Program Capacity 64 MB (16 Axes/NPN)	AX-516EB0MB1P	Program Capacity 64 MB (16 Axes/PNP)
AX-532EB0MB1T	Program Capacity 64 MB (32 Axes/NPN)	AX-532EB0MB1P	Program Capacity 64 MB (32 Axes/PNP)
AX-564EB0MB1T	Program Capacity 64 MB (64 Axes/NPN)	AX-564EB0MB1P	Program Capacity 64 MB (64 Axes/PNP)

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Smarter. Greener. Together.

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