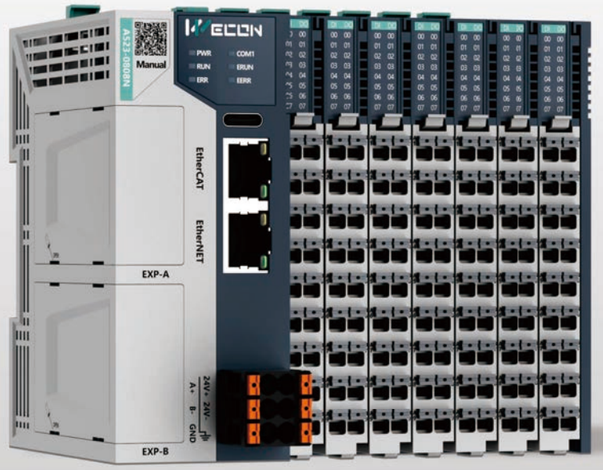
A500 Series PLC

Platform-type

A500 Series



Self-developed

Independent and controllable upper and lower computer system

High-performance processor

4 cores 1GHz, A35 CPU

Large capacity storage

512M running memory, 4G storage and TF card optional

Excellent expansion capabilities

Support 6 local pulse axes,
16 axes / 1ms processing speed and supports up to 32 axes

Narrow body, easy to install

Ultra-thin blade expansion module
Screw-free, removable spring terminals

Multiple download/communication methods

Support two expansion cards on host PLC
Support TF card and RTC card
Supports up to 32 expansion modules

Specification

Model	A500 Series
Program Execution	Loop scan / interrupt
Programming Language	LD/SFC/ST
Instructions	Basic instruction: 29 / Application instruction: 170
Execution Time	Basic instruction: 0.01-0.02μs
Program Capacity	5MB
Download and Monitoring	EtherNet
	USB TYPE-C
High Speed Output	Transistor: 6 channels 200KHz
High Speed Counter Interrupt	100 channels
Timing Interrupt	100 channels, support 0.1ms interrupt
External Input Interrupt	X0 to X7, support both rising edge and falling edge
High Speed Input (single phase)	4 channels 150KHz
High Speed Input (AB phase)	4 channels 150KHz, support 1/2/4 times frequency
Latch Function	Configured by software
Storage	Flash
Filter	For all input terminals
Serial	RS485
Temperature	Working temperature: 0 to 55℃ / Storage temperature: -20 to 70℃
Humidity	35 to 85%RH (no condensation)
Shock Resistance	JIS C 0040 Standard
Anti-interference	IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P, 10μs pulse width, 0.3S period, edge 5ns; continuous action for 1 minute
TF card	Support
EtherNet	100M
EtherCAT	Support up to 32 servo axes

A500 PLC Model	I / O	Output Type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	EtherCAT	Number of Modules	Power Supply	Ethernet
A520-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	-	32	DC	YES
A521-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	8 Axis	32	DC	YES
A522-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	16 Axis	32	DC	YES
A523-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	32 Axis	32	DC	YES

A500 Series expansion module		Specification
I/O	AE30-1600	16*Digital Input
	AE30-0016N	16 * Transistor Output（NPN）
	AE30-0808N	8 * Input，8 * Transistor Output（NPN）
	AE30-0016P *	16 * Transistor Output（PNP）
Analog	AE30-4AD	4 * Analog Input
	AE30-4DA	4 * Analog Output
Temperature	AE30-4TC *	4 * Thermocouple Input
	AE30-4PT *	4 * Thermal Resistance Input
Weighting	AE30-2WT *	2 * Weighting

A500 Series Communication Card	Description
AL30-RTC2RS485 *	Extended real-time clock and 2-channel RS485 interface
AL30-ETH *	Extended one Ethernet interface
AL30-TF *	Extended one TF card interface

*: In developing