

# Central Processing Units

## Distributed Control System

### A-51x Series

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#### OVERVIEW

- ※ Creation of control programs in Function Block Diagram (FBD) or Ladder Diagram (LAD)
- ※ 4-Axis Synchronous Motion, 100 KHz PWM (Total 400KHz)
- ※ Able To Edit The Parameter Among The Controller Operation
- ※ Multiple AUTO-PI Synchronous Function
- ※ Multi-Lingual Display Menu
- ※ Enhance Password & Safety Function
- ※ Text Display Can Be Pre-Programmed in Two Languages
- ※ Built-in Standard High Frequency Counter (250KHz per Input, Total 1000KHz)
- ※ Built-in Standard Real Time Clock (RTC)
- ※ PC Program Can be Used For All A-61/52/62 Series
- ※ ATP2 Text Panel Can Plug & Play Directly
- ※ Built-in Standard RS-485 Port, Connect More Than 10000 IOs Via Remote IO Module
- ※ Memory Card Which Has Copy & Password Protection
- ※ Connect Encoder & Multi-Sensors Directly
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Built-in Datalog Function, MicroSD Plug-in
- ※ Display Text Display Diversity Patterns, Scrolling Text, Bar Charts, Indicators ....
- ※ 104 FBD Integrated Functions, 97 LD Integrated Functions
- ※ Astronomical Clock Function
- ※ ATP2 Text Panel Built-in Function Key
- ※ Digital Oscilloscope Function, Real-Time Monitoring
- ※ High-Level Math Functions
- ※ Communication Protocol MODBUS RTU/ASCII & Multi Format
- ※ Block Name Define, Program Comment
- ※ Communication Baud Rate 921600 bps
- ※ Custom Truth Table, Without Logical Analysis
- ※ Multi Communication Parameter Function
- ※ Quick Calculation Of Nonlinear Equations
- ※ Random Generator Hardware
- ※ Free PC software "Yotta Edit" + "Yotta Utility"



For more information, please refer to [www.yottacontrol.com](http://www.yottacontrol.com)

- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVLO)
- ※ Independent Communication Port which can communicate with 255 units MODBUS devices synchronized

Type	5188D 5188 5188M	5188D-T 5188-T 5188M-T	5189D 5189 5189M	5189D-T 5189-T 5189M-T
Operation Voltage	10-30VDC/24VAC	10-30VDC/24VAC	10-30VDC/24VAC	10-30VDC/24VAC
Inputs	8DI status low:<2VDC status high:>4VDC	8DI status low:<2VDC status high:>4VDC	4DI(Isolation) 4AI status low:<2VDC status high:>4VDC	4DI(Isolation) 4AI status low:<2VDC status high:>4VDC
Outputs	4*Isolation(Relay)	4*Isolation(Transistor)	4*Isolation(Relay)	4*Isolation(Transistor)
Continuous Current	Relay:5A (with resistive load), 2 A (with inductive load) / Transistor:1.75A(OCP/OTP/UVLO)			
Output Operating Frequency	Relay:30HZ / Transistor:100KHZ			
Input Operating Frequency	250KHZ(Total 1000KHZ)			
RTC/ Hold During Power Off	Yes			
Operation Temperature	-20 to +75 °C			
Communication Ports	USB*1 & RS-485*2 & RS-232*1			
Communication Baud Rate	1200-921600bps			
Degree Of Protection	IP20			
Base Controller IOs	12 IOs,			
Installation	35 mm DIN rail or Flush mounting			
Dimension (W x H x D mm)	76.4*118.2*40.7 mm			
Communication Cable	CAB-MINIUSB60 or RS-485 or RS-232			

\*D-x = LCM Type / \*M = MicroSD Type