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C3351-B01

Programmable Logic Controller

FEATURE

- The supported I/O expansion modules include:
  A. Digital Input Module
  B. Digital Output Module
  C. Analog Input Module
  D. Analog Output Module
  E. Special Function Module

- Powered by the robust CODESYS V3.5 engine, the C3351-B01 supports all 5 standard IEC 61131-3 languages (LD, ST, FBD, IL, SFC), ensuring code portability and a familiar development environment for engineers worldwide.

- The CPU's Ethernet port supports Modbus TCP (Client/Server) for third-party data exchange. Its RS485 port supports Modbus RTU (Master/Slave) for serial communication. These versatile interfaces allow the PLC to integrate seamlessly with diverse third-party devices in various automation systems.

Technical Specifications

Programming Software	CODESYS V3.5.19.70
Programming Language	IEC 61131-3 (LD, IL, ST, CFC/FBD, SFC)
Maximum State Task	5
Program Memory	4M Bytes
Data Storage	4M Bytes
Power-down Protection Area	32K Bytes
Bit Instruction Cycle	0.0738us
Word Transfer Cycle	0.33us
Float Operation Cycle	0.33us
RTC	Not Supported
Maximum Expansion Module	32
Modbus Master Max Channel Numbers	10
Modbus Master Max Channel Numbers	Function Code 1(Read Coils): 2000/per channel Function Code 2(Read Discrete Inputs): 2000/ per channel Function Code 3(Read Holding Registers): 125/ per channel Function Code 4(Read Input Registers): 125/ per channel Function Code 15(Write Multiple Coils): 440/ per channel Function Code 16(Write Multiple Registers): 27/ per channel Function Code 23(Read/Write Multiple Registers): 25+25/ per channel

The C3351-B01 is a high-performance Micro PLC designed for logic control and data acquisition. Built on the industry-standard CODESYS V3.5 runtime system, it allows engineers to program using standard IEC 61131-3 languages.

With built-in Ethernet (Modbus TCP) and Serial (Modbus RTU) interfaces, the C3351-B01 serves as a versatile controller for small-to-medium automation systems, seamlessly connecting IT and OT environments.

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General Parameters

System Power	19.2 - 28.8VDC (Nominal: 24VDC) | Anti-inversion protection: support
System supply current	Max. DC 2A
Module Consumption	110mA@24VDC
Internal Bus Supply Current	Max: 2.0A@5VDC
Field Power	19.2~28.8VDC (Nominal: 24VDC)
Field Power Current	Max. DC 8A
Wirring Diameter	Max.1.5mm² (AWG 16) Min.0.2mm2 (AWG 24
Installation	35mm DIN rail
Dimension	115 * 65.5 * 75mm
Weight	170g

Interface Parameters

Interface	2 * RJ45,1 * RS485
Network Protocol	Modbus TCP， Modbus RTU
RS485 Parameter	Support Modbus RTU/ASCII the baud rate is 2400~115200bps
Ethernet Parameter	10/100Mbps, Adaptive and full duplex
Modbus TCP Client	Max supports for connecting 6 Modbus TCP servers
Modbus TCP Server	Max supports for 6 Modbus TCP clients connected
Modbus RTU Master	Max supports for connecting 5 slave devices
Modbus RTU Slave	Max supports for connecting 1 master device

Environmental Parameters

Operating Temperature of Vertical Installation	-35°C - 70°C
Operating Temperature of Horizontal Installation	-35°C - 60°C
Relative Humidity	5-95%RH (No Condensation)
Storage Temperature	-40°C - 85°C
Storage Humidity	5-95%RH (No Condensation)
Manufacturing Test Temperature	-40°C - 75°C
Ingress Protection Rating	IP20
Anti-pollution Rating of the Intended Environment	Pollution level 2
Altitude	< 2000 m