

## **FX3U-56MR6AD2DA / FX3U-56MT6AD2DA PLC FX3U Compatible 32DI 24DO 6AI 2AO**

The FX3U-56MR6AD2DA and FX3U-56MT6AD2DA are programmable logic controllers designed for industrial automation systems requiring digital, analog, communication, and high-speed control capabilities.

### **Product Overview**

These PLC models provide 32 digital input channels and 24 output channels, available in relay (MR) or transistor (MT) output types. Both versions include 6 analog input channels and 2 analog output channels for continuous signal monitoring and control.

The controllers feature RS485 Modbus RTU communication and integrated real-time clock (RTC) functionality.

### **Key Features & Advantages**

- 32 digital inputs and 24 outputs (relay)
- 6 analog inputs:  $3 \times 0-10V$  and  $3 \times 0-20mA$
- 2 analog outputs:  $0-10V$
- Built-in RS485 Modbus RTU communication
- Integrated RTC with power-down maintenance support

### **Applications**

Suitable for industrial environments and equipment requiring:

- Automation system control
- Digital and analog signal processing
- RS485 Modbus RTU communication
- High-speed motion or pulse control (MT version)
- HMI-integrated monitoring and control

**Software: GX-Developer/GX Works2**

**Programming Cable : USB to Serial cable**

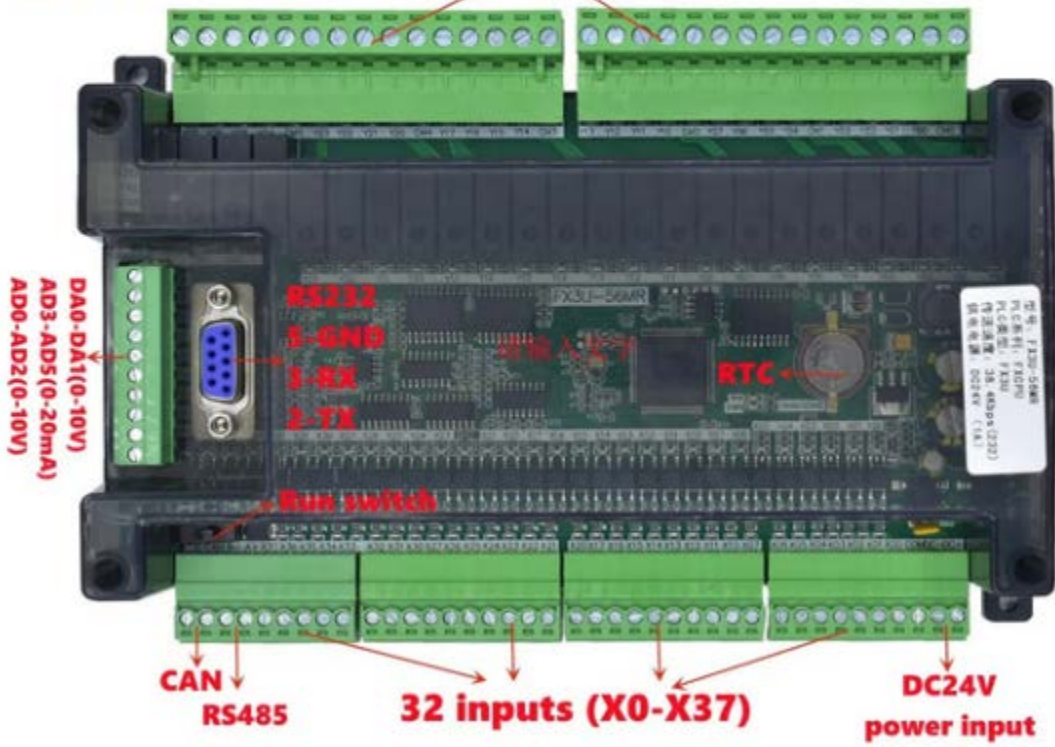
### **Specifications:**

Input Power	DC24
Number of steps	8000 steps; 2 communication ports: 1 RS232 (DB9 serial port is communication port for the FX3u protocol 38400,7, E, 1 ; 1 RS485 (485 selection) communication protocol can be set D8120).
X input element	X0-X27 DC24 input, Low level, X0-5 is a high-speed count input port (the Default is 1K)
Y output element	Y0-Y27 for optimal relay output, relay output current 5A. 4 continuation electric apparatus 1 common end, altogether 3 common ends
Analog input	6 analog input, 12-bit precision, 3-channel analog input 0-10V, 3 channel analog input 0-20MA; read analog RD3A instruction
Analog output	2 analog output, 12-bit precision, output voltage: 0-10V. output analog voltage with WR3A instruction
Intermediate relay	M0-M3071, power-down save range can be set M0-M1023, the default M500-M1023
Step point	S0-1023, power-down save range can be set S0-S1023, the default S500-S9999
100Ms timer	T0-T199 Accumulated power-down saving T184-T199
10Ms timer	T200-T249 Accumulated power-down saving T246-T249
1Ms timer	T250-T383, where T250-255 is the cumulative type
16-bit counter	C0-C199, power-down save C100-C199
32-bit counter	C200-C219, save the power-down C220-C234
32-bit high-speed counter	C235-255; C235-C240 for the single-phase counter, not multiplier; C241-240 for the single-phase calculator, 2 octave; C2470249 for the dual-phase counter, not multiplier; C250-252 for dual-phase counter, ; C253-C255 for the dual-phase counter, 4 octave
Register D	D0-D7999, power-down save the range can be set D0-7999
Indirect addressing pointer V, Z	V0-7, Z0-7
P The subroutine jump number	P0-63
I interrupt	X0-5 external interrupt, timer interrupt (1MS unit) counter interrupt
Special M components	M8000 run-time normally closed, M8002 power pulse, M8011 is 10Ms pulse, M8012 is 100Ms pulse, M8013 is 1s pulse, M8014 is minute pulse

1\*485  
1\*232  
1\*CAN  
6AD2DA  
RTC+OUTER SHELL

# FX3U-56MR

24 relay outputs (Y0-Y27)



Usb to Serial programming cable

