

Thank you for using MU300 series PLC. Before using the product, please carefully read this manual so as to better understand it, fully use it, and ensure safety. This quick start manual is to offer you a quick guide to the design, installation, connection and maintenance of MU300 series PLC, convenient for on-site reference.

This manual is for the following MU200 series members:

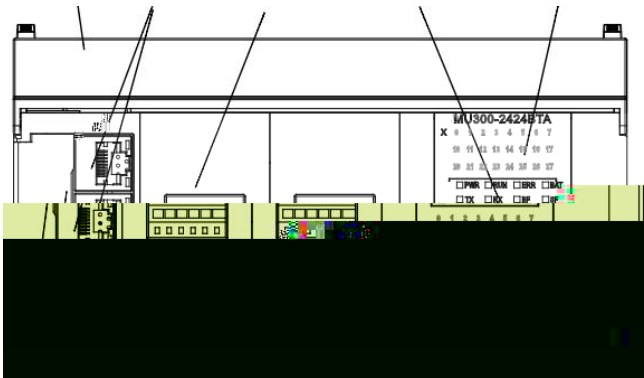
MU300-0808BTA MU300-1210BTA
MU300-1210BRA MU300-2424BTA

Version 1.2

Revision Date 2024-11-11

BOM Code R33011245

For detailed product information, please refer to *MU Series PLC User Manual*, *MEGcreator Programming Software User Manual*, and *MU Series PLC Programming Reference Manual*. For ordering the above user manuals, contact your Megmeet distributor or sales office.



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Fig 1-1Appearance and part name of module

2.



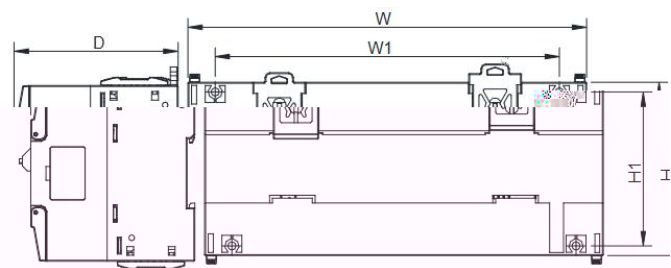


Fig 3-3 Dimensions of MU300 series main module

Model	W	W1	H	H1	D
MU300-0808BTA	105	78.3	90	80	85
MU300-1210BTA					
MU300-1210BRA					
MU300-2424BTA	210	181.3	90	80	85

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MU300 series PLC can provide a S/S terminal, in which user can select the signal input



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Model Function	MU300-0808BTA	MU300-1210BTA	MU300-1210BRA	MU300-2424BTA
High-speed input	X0~X3 200KHz	X0~X3 200KHz ×		X0~X7 200KHz
High-speed output	Y0~Y3 200KHz	Y0~Y3 200KHz	/	Y0~Y7 200KHz
USB	Support for program download and monitoring with TYPE-C port.			
Ethernet	Two front ports integrated with switch, can be configured as EtherNet/IP master/slave or ModBUS TCP master/slave			
EtherCAT	Support 16-axis EtherCAT motion control; Min.EtherCAT cycle: 1000us, support up to 16 EtherCAT slaves			
CANopen	MUE-CAN expansion card needs to be installed.			
Expansion card	1			2
Expansion module*	6			12
TF card	Supported			

*The expansion module is applicable to MU200 series.

9.1 Input Characteristic and Signal Specification

Table 8-1 Input port specification

Item		Specification
Signal Input Mode		Source type/leakage type, user can choose through the S/S terminal.
Electrical parameter	Detection Voltage	24VDC
	Input Impedance	High-speed input port: 2.4KΩ other ports: 4.3KΩ
	Input as ON	External circuit resistance 400Ω
	Input as OFF	External circuit resistance 24KΩ
Filter function	Digital filter	All ports support the digital filter function, and the filter time can be set
	Hardware filter	The ports have the hardware filter function, and the filter time is about 0.5ms
High-speed function		Functions like high-speed counting, interrupt, pulse capture can be achieved The port counting frequency can be up to 200KHz
Common wiring method		All input channels share one input common terminal

Table 9-3 Relay output port

Item	Specification
Rated voltage of loop power supply	Below AC250V/DC30V
Circuit insulation	Relay mechanical insulation

Table 11-1 Common problem and solution

Phenomenon	Possible cause	Solution
PWR and other indicators are OFF	Power supply voltage loss or low voltage	Check the power supply condition
	Disconnect the power switch or fuse blown	Check the switch, wire or fuse condition
	Abnormal power wiring	
	Power board damage	Check and confirm Whether the voltage between LN terminals is within the normal range; whether exist short circuit or overload between 24V and 0V terminal
PWR indicator flash intermittently	Poor contact of power circuit	
	Over-connection of expansion modules, to cause current limiting	
	Short circuit in external power supply, to cause current limiting	
ERR indicator flashing	User program error	Re-edit program by MEGreator and download after exclusion
	Actual running time exceeds WDT setting	Increase WDT set time
	Expansion module fault	Check and rectify faults
Inconsistency between input status indicator and input terminal status	Over on-resistance of user circuit	Set the external-circuit electrical parameters to appropriate range, like shortening wire length, and nonuse of extremely thin wires
	Poor signal circuit contact	Check the cable connection and troubleshoot the fault
Output cannot be closed	Poor external wiring	
	Output channel damage	Swap with idle port
Inconsistency between output status indicator and output terminal status	Indicator damage or output channel damage	
Upload, download, and monitor disable	Poor cable connection	Use the special cable of Megmeet PLC
Non-response of expansion module	Unreliable connection	Check in power-down status, and power on after rectifying the fault
Serial port controls other equipment unsuccessfully	Poor cable connection or incorrect wiring signal property	Connect communication cables correctly
	Inconsistent settings of communication master and slave devices, such as baud rate, parity check, data bit, and address	Set the same communication parameter
	Communication protocol is inconsistent with the master and slave	Set the same communication protocol
High speed miscounting	In most cases, the input signal is interfered	Route the low voltage sensitive signal cable separately from the power cable

Notice

- The warranty range is confined to the PLC only.
- Warranty period is 18 months, within which period Megmeet conducts free maintenance and repairing to the PLC that has any fault or damage under the normal operation conditions.
- The start time of warranty period is the delivery date of the product, of which the product SN is the sole basis of judgment. PLC without a product SN shall be regarded as out of warranty.
- Even within 18 months, maintenance will also be charged in the following situations:
 - Damages incurred to the PLC due to mis-operations, which are not in compliance with the User Manual;
 - Damages incurred to the PLC due to fire, flood, abnormal voltage, etc;
 - Damages incurred to the PLC due to the improper use of PLC functions.
 - Remove the PLC personally.
- The service fee will be charged according to the actual costs. If there is any contract, the contract prevails.
- If you have any question, please contact the distributor or our company directly.

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