Power Solutions

Telecom Power Server Power OA Power Laser Power Solar & BESS & EV Charging Solution

Electric Power

□ Medical Power □ Display Power □ LED Power □ Flat Panel Power □ Bi-directional Inverters for Portable Power

Industry Automation

Control System Elevator Controller Linear Motors IOT Solution 🗌 Servo System Encoder □ Variable Frequency Drive □ Internal Gear Pump

New Energy Solutions

□ Multiplexed EV Charging System(OBC & DC-DC) Power Electronic Unit(2-in-1, 3-in-1) □ E-Compressor □ TV EDU Motor Control Unit Construction Machinery Controller □ Intelligent Active Hydraulic Suspension (i-AHS) Railway A/C Controller Railway VFD Light Electric Vehicle Controller Thermal Mgmt. System

Home Appliance Control Solutions

- Residential A/C Controller Commercial A/C Controller □ Vehicle A/C Controller Refrigerator Controller Industrial Microwave
 - Solar A/C Controller □ Washer/Dryer Controller Smart Bidet

Heat Pump Controller Mini Compressor Controller Residential Microwave □ RF Thawing System

Precision Connection

FFC

Coaxial Cable

Litz Wire

FOLLOW US

Q Megmeet

⊡

Peek Wire

SHENZHEN MEGMEET ELECTRICAL CO., LTD.

□ FPC

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CCS

Power Supply Product | Industrial Automation | Smart Appliance Electronic Control New Energy Vehicle& Rail Transit | Intelligent Equipment | Precision Connection

CONTROL SYSTEM SELECTION BROCHURE









Global Leading Solution Provider In Electrical Automation

Shenzhen Megmeet Electrical Co., Ltd.(Stock Code:002851) is a one-stop solution provider for the R&D, production, sales and services of hardware and software in electrical automation field, highlighting in power electronics and automatic control echnology. Company's main business covers six parts: power supply products, industrial automation, new energy vehicle& rail transit, intelligent equipment, smart appliance electronic control and precision connection.

Our company has established a strong platform of R&D, manufacturing, marketing and service with more than 2800 R&D personnel and a total of more than 7800 employees. We have established R&D centers in Shenzhen City, Changsha City, Xi'an City, Wuhan City, Zhuzhou City, Hangzhou City, Taizhou City and Chengdu City; overseas research institutes in the United States, Germany, and Sweden; manufacturing centers in Zhuzhou City, Dongguan City, Heyuan City, Taizhou City, and Yiwu City; overseas factories in Thailand and India; overseas marketing station in the United States, Japan, Korea, Southeast Asia, India, Germany, Poland, Romania, Turkey, Sweden to provide quality service resources.

MEGMEET is committed to helping people achieve a more efficient use of electricity, creating a cleaner living environment, continuously improving production efficiency and creating a better life for human beings. Our company aspires to become a global first-class product and solution provider in the field of electrical control and energy saving.

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MX600 Series MC8000 Series MC6000 Series MC5000 Series

MU400 Series MU300 Series MU200 Series MC700 Series MC280/MC200E Series MC200 Series MC100 Series

MR400 Series MC5000S Series

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MQT Series MTC/MTCW/MTCV Series MTCE Series MCAS Series MDT Series

Cable List

MZ800 Series

MX600 Series Medium PLC

MX600 series intelligent controller breaks through the 256-axis µs-level synchronous control, supports EtherCAT, EtherNET / IP, ProfiNet and other bus protocols, and the redundant architecture ensures 99.999 % extreme condition stability. It covers high-precision scenarios such as lithium battery winding, semiconductor, photovoltaic, etc., and synchronously meets the ms-level sequential control requirements of 3C assembly, five-axis machining and high-speed packaging.

Product Feature

Excellent performance

• Support 16-axis/250us, 64-axis/500us and 256-axis/2ms sync cycles, and 20us jitter to ensure high-precision control.

High-speed IO

• 16 digital inputs and 16 digital outputs, including 8 high-speed inputs and 8 high-speed outputs; 4 pulse output and 4 AB-phase encoders.

Advanced Motion Control

• Support multiple sets of E-CAMs, E-Gears and multi-axis interpolation, and G-code function

Model and Specification

High reliability

• Equipped with dual EtherCAT master station, it supports redundancy, enhancing system stability and security.

Comprehensive protocol

• Compatible with EtherCAT, OPC UA, EtherNet/IP, Profinet, MODBUS RTU, MODBUS TCP and other protocols.

Diversified interfaces

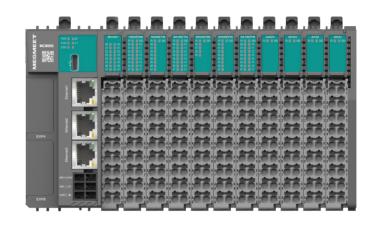
• Provide 5 Ethernet ports, 4 USB ports, 3 RS485 ports, 1 RS232 port, 1 HDMI port, and 1 DP port

Item		MX610	MX620	
Power supply		24V DC (-15%~20%)		
CPU		N97,2GHz	I3-N305	
	Memory	8GB DDR4	16GB DDR4	
	Hard disk	128GB SSD	256GB SSD	
(SPI FLASH	64Mbit		
Control month	RS485	3 channels (COM1,COM3,COM4, on	e MODBUS master support 31 slaves)	
Serial port	RS232	1 channel (COM2, s	upport MODBUS-RTU)	
	EtherCAT axis	64+64 (LAN1,LAN2 are Masters, redundancy)	128+128 (LAN1,LAN2 are Masters, redundancy)	
EtherCAT*2	EtherCAT slave	256	512	
	ModbusTCP (Master/Slave)	3 channels (Up to 63 slaves)	/	
Ethernet	EtherNet/IP (Master/Slave)	1 channel (Max. Client connection	on:64, Max. Server connection:32)	
Ethernet	Profinet (Slave)	1 channel	, support RT	
OPC UA		3 ch	annels	
General input * 8		8 (NPN/PNP)		
10	General output * 8	8 (NPN)		
10	High-speed input * 8	8*single-phase (Max. 200KHZ) , 4*AB phase (100KHZ)		
	High-speed output *8	8*single-phase, 4*AB phase (Max. 200KHZ)		
	Single axis	4 pulse; EtherCAT (64+64)	4 pulse; EtherCAT (128+128)	
Motion control	ECAM/Gear	127	255	
	Axis group/CNC	8 (Max.: 3 axis in one group)	16 (Max.: 3 axis in one group)	
Exte	ernal interrupt		8	
Progra	amming method	IEC 61131-3 programming language (LD, ST, SFC, CFC)		
Prog	ram execution	Cor	npiling	
Progra	im storage space	128	M Byte	
Program storage capacity		Data, Const: 128MB data capacity N Area; Memory: 5 MB (%M Variable) M Area; Inputs: 128KB %I; Outputs:128KB %Q		
Ret	tention space	Persistern: 6MB Retain:1MB (Reset Cold)		
	Size (mm)	160(H)*55(W)*147(D)		
V	Veight (kg)	<1.3Kg		
	SD card	Natural cooling		
EMC	Specification	EN61131-2 Zone B		
3 Control Syst	•			



MC8000 Series Medium PLC *

MC8000 series product is a new generation of high-performance and cost-effective medium PLC based on the mOPAX platform of MEGMEET. It is fully compatible with the IEC61131-3 programming specification and supports LD, ST, SFC, CFC, FBD, and IL programming languages; adopts the blade-type module design, and supports multi-core processor. Based on multi-bus protocols such as EtherCAT and Profinet, a multi-axis motion control system is constructed, to meet the high-speed response requirements of intelligent devices.



Product Feature

Strong expansion & networking

- Expand up to 32 modules, support the expansion of digital, analog, CAN, RS485, RS232, etc.
- Full protocol compatibility, support Modbus/ EtherCAT/EtherNet IP/Profinet and others.

Precise Multi-axis control

• 1ms/16-axis sync, support 16/32/64-axis EtherCAT control

Ultra-large capacity

• Support 10M program capacity, 20M data capacity, 512KB retention, for complex logic and data processing

P03 Control System Brochure



Reliably excellent performance

- Four-core A55 processor, communication, logic and algorithm are completely independent.
- 8*200K high-speed input, 8*200K pulse output (single pulse, pulse + direction, AB phase, FWD+REV, etc.)

Flexible & convenient operation

- 12mm machine body, saving space
- PUSH In terminal, easily wiring and replacing without tools

MC6000 Series Medium PLC

MC6000 series PLC is a new generation of medium PLC based on the Codesys platform, supporting EtherCAT multi-axis bus control, electronic CAM, electronic gear and other functions. The design conforms to PLCopen specification and IEC61131-3 standard. MC6000 is suitable for lithium battery, 3C electronics, photovoltaic, textile, HVAC and non-standard equipment industries.

MEGMEET	MEGMEET	MC6000	WCS000-0016ERN-T	MC5000-1600ENN-T	WC5000-1616ETN-PH	WCS000-ETC
MPSOAC220 NA	111	:	:	:		-
<u></u>				00000000000000000000000000000000000000		

Product Feature

EtherCAT Control:	Support up to 2ms/16 axis synchronous operation, to achieve electronic gear, electronic CAM and other control easily
High-speed I/O:	Built-in 200KHz high-speed I/O(8 * DI+8 * DO)
Programming language:	Support ST, SFC, FBD, CFC, LD and IL, etc.—— IEC61131-3 standard programming language
Rich Interface:	Ethernet, RS485, CAN, USB, TF card
Large capacity:	16MB program capacity, 16MB data capacity, 256MB storage capacity, 64KB+4KB retention on power down and TF card expansion
Multi-communication:	Support standard MODBUS RTU, free format communication, MODBUS TCP, PROFINET, CANOpen master

station, EtherCAT master station and other communication protocols

Model and Specification

Item		MC6000	MC6010*	MC6020*	
Local IO expansion		16 modules (Max. 1024 points)			
	Program capacity	16M			
	Data capacity	12MB			
Pow	er-down retention capacity		64+4KB		
	Memory area	Area I: 12	8KB, Area Q: 128K, Are	ea M: 4MB	
	Bit instruction processing (AVG.)		24.9ns		
Instruction	Word instruction processing (AVG.)		60.9ns		
processing speed	Integer four-rule operation(AVG.)		50.7ns		
specu	Floating number four-rule operation (AVG.)		50.4ns		
High-speed	Input	4-channel AB phase/8-channel single phase			
10			Y0~Y7: 4-channel 200KHz		
Ethernet		5*sockets (Modbus TCP Master/Slave, Free protocol)			
Communication RS485		2-channel (Modbus	RTU Master/Slave,M	Cbus, Free protocol)	
Tunction	function Support 4 Clients to access Support OPC UA, TCP/IP, UDP				
	Programming language	ST、LD、FBD、SFC、CFC、IL			
	Supported motion axis	Max. 24	Ma	x. 12	
EtherCAT	Slave station quantity	Max. 32 (Including motion axis)			
EUTERCAT	Min. Synchronization period	1ms			
	Typical value of communication cycle	16 axis-2ms	12 ax	is-2ms	
	CAM quantity	8		4	
Motion control	Single axis quantity	16	1	2	
	Axis group/CNC		1 axis group		
Hardware	TF card		Supported		
resource	Type-C Supported				

MC6010 Profinet(Slave) Index				
Transmission medium	Ethernet CAT5 cable			
Transmission distance	≤100m(Station-Station)			
Transmission rate	100Mbps			
Bus Interface	1*RJ45			
RT	Supported; Min. Period: 4ms			
IRT	Not supported			
Input data area	1440 Bytes			
Output data area	1440 Bytes			

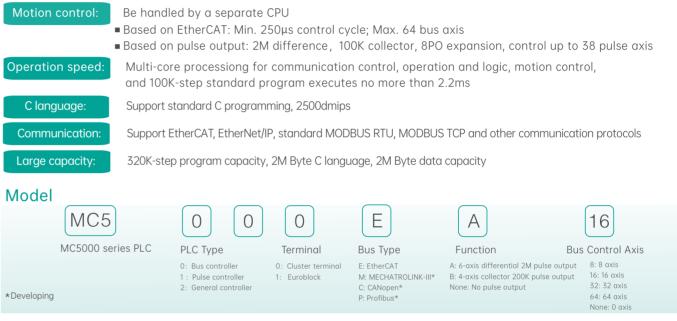
MC6020 Ethernet/IP Index				
Slave station quantity	31			
Transmission medium Ethernet CAT5 cable				
Transmission distance	≤100m(Station-Station)			
Transmission rate	100Mbps			
Bus Interface	1*RJ45			
Max. Input	504 Bytes			
Max. Output	504 Bytes			
Max. Quantity of CIP connection	10			

* Developing

MC5000 Series Medium PLC

MC5000 is a perfect combination of motion control and medium PLC controller, supporting EtherCAT multi-axis bus control, interpolation, E-CAM, G-code, C language programming and other powerful functions. MC5000 is suitable for lithium battery, 3C electronics, photovoltaic, textile, and other industries.

Product Feature



*Developing

Model and Specification

	•						
Item		MC5200E	MC5101EB	MC5100EA	MC5000EA64	MC5000E64	MC5001EB64
	Local IO expansion			16 modules (Max	. 1024 IO points)		
Program capacity		320K step					
Data capacity		2M					
	Bit instruction processing			6.4	ns		
	Word instruction processing			25	ns		
Operating	Integer four-rule operation (AVG.)			40	ns		
speed	Floating number four-rule operation (AVG.)			50	ns		
	Ladder diagram	2ms/100K step					
	C language			2500	dMIPS		
High-speed IO	Output	-	4-axis (collector)	6-axis(di	fference)	-	4-axis (collector)
nigri-speed iO	Input	-	2× AB phase	1×5V differential	+2×AB AB phase	-	2×AB phase
(Common IO(Transistor)	16-input, 16-output		4-input, 4-output		16-input, 16-output	4-input, 4-output
Communication	Ethernet		8 sock	ets (ModbusTCP Mo	ister/slave, free pr	otocol)	
function	RS485		2×(M	odbus Master/slave	, MCbus, free pro	otocol)	
F	Programming language			LD, SFC, FBD	, C language		
	Supported motion axis		-			64(Max.)	
EtherCAT	Bus expansion rack			8 gr	oups		
EtherCAT	Min. synchronization time			250)us		
	Typical value of communication cycle		-			1ms	
	CAM and interpolation	-	3×CAM /1 × multi-	axis interpolation		Supported	
Motion Control	Table output	-			10000 steps x2		
	CAD file import	-			Supported		
	Standard C			Support s	tandard C		
Clanar	Operation mode	Mixed programming with ladder diagram/Independent C-programming					
C Language	Function library	Rich standard function library					
	User-defined library	Support to encapsulate function blocks by C language(import, export, encryption)					
Hardware	SD card	Supported					
Resource	USB download	Supported					

P05 Control System Brochure



Model	Description	Description		
CPU Module				
	IO of Main Module	Number of bus control axis		
MC5200E	Input: 16-channel Output: 16-channel transistor	-	Standard medium module Terminal: cluster terminal	
MC5100EA	Input: 4-channel 200K pulse, 3-channel 1M differential pulse Output: 4-channel transistor, 6×2M differential pulse channel	-	Pulse main module Terminal: cluster terminal	
MC5101EB	Input:8-channel(support 4-channel 200K pulse) Output:8-channel transistor(support 4-channel 200K pulse)	-	Pulse main module Terminal: Euroblock	
MC5000E8	Input: 16-channel Output: 16-channel transistor	8-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000E16	Input: 16-channel Output: 16-channel transistor	16-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000E32	Input: 16-channel Output: 16-channel transistor	32-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000E64	Input: 16-channel Output: 16-channel transistor	64-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5001EB8	Input:8-channel(support 4-channel 200K pulse) Output:8-channel transistor(support 4-channel 200K pulse)	8-axis EtherCAT	Bus main module Terminal: Euroblock	
MC5001EB16	Input:8-channel(support 4-channel 200K pulse) Output:8-channel transistor(support 4-channel 200K pulse)	16-axis EtherCAT	Bus main module Terminal: Euroblock	
MC5001EB32	Input:8-channel(support 4-channel 200K pulse) Output:8-channel transistor(support 4-channel 200K pulse)	32-axis EtherCAT	Bus main module Terminal: Euroblock	
MC5001EB64	Input:8-channel(support 4-channel 200K pulse) Output:8-channel transistor(support 4-channel 200K pulse)	64-axis EtherCAT	Bus main module Terminal: Euroblock	
MC5000EA8	Input: 4-channel 200K pulse, 3-channel 1M differential pulse Output: 4-channel transistor, 6×2M differential pulse channel	8-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000EA16	Input: 4-channel 200K pulse, 3-channel 1M differential pulse Output: 4-channel transistor, 6×2M differential pulse channel	16-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000EA32	Input: 4-channel 200K pulse, 3-channel 1M differential pulse Output: 4-channel transistor, 6×2M differential pulse channel	32-axis EtherCAT	Bus main module Terminal: cluster terminal	
MC5000EA64	Input: 4-channel 200K pulse, 3-channel 1M differential pulse Output: 4-channel transistor, 6×2M differential pulse channel	64-axis EtherCAT	Bus main module Terminal: cluster terminal	

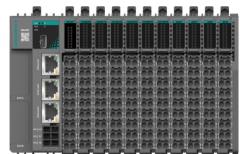
Applicable to MC6000/MC5000 basic modules and MC5000S remote IO modules

	Power Module	
MP50AC220	Input: 100~240Vac, Output: 24V/2A	AC power module
	IO Expansion Module	
MC5000-3232ETN	32-point 24DVC input, 32-point transistor output	Cluster terminal
MC5000-1616ETN	16-point 24DVC input, 16-point transistor output	Cluster terminal
MC5000-3200ENN	32-point 24DVC input	Cluster terminal
MC5000-0032ETN	32-point transistor output	Cluster terminal
MC5000-6400ENN	64-point 24DVC input	Cluster terminal
MC5000-0064ETN	64-point transistor output	Cluster terminal
MC5000-1600ENN-T	16-point 24DVC input	Plug-pull screw terminal
MC5000-0016ERN-T	16-point relay output	Plug-pull screw terminal
MC5000-0016ETN-T	16-point transistor output	Plug-pull screw terminal
MC5000-3200ENN-P	32-point IO input	Euroblock
MC5000-0032ETN-P	32-point IO output	Euroblock
MC5000-1616ETN-PH	16-point 24DVC input, 16-point transistor output (with 4 channels high-speed counter)	Euroblock
MC5000-1600ENN-P	16-point IO input	Euroblock
MC5000-0016ETN-P	16-point IO output	Euroblock
MC5000-0016ERN-P	16-point relay output	Euroblock
MC5000-0014EPN-P	14-point high-side transistor output	Euroblock
	Special Function Module	· · · · ·
MC5000-8PO	8-axis 200KHZ pulse output module (1 main module can configure up to 4, MC5000 only)	Cluster terminal
MC5000-4AD/8AD	4/8-channel analog quantity input module	Plug-pull screw terminal
MC5000-4DA	4-channel analog quantity output module	Plug-pull screw terminal
MC5000-4PT	4-channel thermal resistance temperature module	Plug-pull screw terminal
MC5000-4TC/8TC	4/8-channel thermocouple temperature module	Plug-pull screw terminal
MC5000-2WT*	2-channel weighing module	Plug-pull screw terminal
MC5000-4DA-P	4-channel analog quantity output module	Euroblock
MC5000-6AD-P	6-channel analog quantity input module	Euroblock
MC5000-8TC-P	8-channel thermocouple temperature module	Euroblock
	Remote IO Module	
MC5000S-ET	EtherCAT expansion rack	EtherCAT slave station
MC5000S-EIP	EtherNet/IP expansion rack	EtherNet/IP slave station
MC5000S-PN	ProfiNet expansion rack	ProfiNet slave station
	Accessory	
MCA05-100L	1m terminal line	Tieline
MCA05-150L	1.5m terminal line	Tieline
MCA10-40P	40PIN terminal	Wiring terminal

P07 Control System Brochure

MU400 Series Small PLC

MU400 is a new generation of economical PLC based on mOPAX platform. It uses LD, ST and FBD languages in accordance with IEC-61121-3 / PLCopen standard; is equipped with EtherCAT, Ethernet, CAN, RS485 and other interfaces; owns 1M program capacity, 1M data capacity; The body is as thin as 12 mm, and supports up to 16 expansion modules, which can meet a variety of applications.



Product Feature

Rich expansion in stable & reliable

- Support up to 16 expansion modules
- Integrate 2 expansion cards, and support the expansion of digital, analog, CAN, RS485, RS232

High performance for precise control

- MCU + FPGA processor, 600MHz frequency
- 8*200K high-speed input, 8*200K pulse output (single pulse, pulse + direction, AB phase, FWD+REV)

Basic Module

Model	Description	Dimensions (L x W x H)
MU401	8-point DC24V input, 8-point transistor output-16 bus axis, 4 pulse axis	105mm x 90mm x 85mm
MU402	8-point DC24V input, 8-point transistor output-8 bus axis, 4 pulse axis	

Expansion Module

Model	Description	Dimensions (L x W x H)
MR400-4ADI	4-channel current input	
MR400-4ADV	4-channel voltage input	
MR400-4DAI	4-channel current output	
MR400-4DAV	4-channel voltage output	
MR400-0004ERN	4-channel relay output	
MR400-0008EPN	8-channel PNP transistor output 80.7mm x	
MR400-0008ETN	8-channel NPN transistor output	
MR400-0016EPN	16-channel PNP transistor output	
MR400-0016ETN	16-channel NPN transistor output	
MR400-0800ENN	8-channel digital quantity input	
MR400-1600ENN	16-channel digital quantity input	
MR400-P2000	Power supply module	

Intelligent EtherCAT control

- 2ms/4-axis synchronization, ms-level response speed
- Standard EtherCAT master, with up to 8 EtherCAT axis

Flexible & convenient operation

- 12mm machine body, saving space
- PUSH In terminal, easily wiring and replacing without tools

MU300 Series Small PLC

MU300 series is a new bus-type small PLC launched by MEGMEET, equipped with high-performance CPU and EtherCAT/CANopen high-speed communication protocol. It supports multi-axis bus control, interpolation, E-CAM, E-gear and other control function, to achieve high-speed operation and efficient communication, flexible configuration and programming in 3C, packaging, hydraulic industry or other control scenarios.



Product Feature

Flexible expansion

- IO point expands up to 240
- Support a maximum of 12 expansion modules and 2 function expansion cards

Excellent performance for precise control

- Arithmetic speed and control performance are significantly improved based on ARM+FPGA dual-core processor
- Support 8-channel 200K high-speed pulse output and single-phase pulse count, or 4-channel 100K AB-phase, CW/CCW, pulse+direction
- Support linear interpolation and E-gear

EtherCAT Control

- Min. 500µs control cycle, support up to 16 bus axis
- Communication port: 1*EtherCAT+2*EtherNet, support up to 32 slave stations

Networking based on multi-communication

- Support MODBUS protocol, CAN free-port protocol and CANopen protocol
- Support USB and MODBUS-TCP communication with a maximum of 5 sockets and 20 connections
- Support Ethernet programming, USB upload and download

MU200 Series Small PLC

MU200 new generation of small PLC uses ARM+FPGA dual-core processor for the powerful processing function, while owns the RS232/RS485/ Ethernet communication ports, and supports linear interpolation and electronic gear. This product is widely used in 3C industry, packaging industry, hydraulic industry, etc.



Product Feature

Networking based on multi-communication

- Support MODBUS protocol, free protocol, CAN free-port protocol and CANopen protocol
- Support USB and MODBUS-TCP communication with a maximum of 5 sockets and 20 connections

Excellent performance for precise control

- Arithmetic speed and control performance are significantly improved based on ARM+FPGA dual-core processor
- Support up to 12-channel 200K high-speed pulse output and 8-channel high-speed count
- Support linear interpolation and E-gear

Basic Mod	lule (AC	Power)
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Model	Description	Dimensions(mm) LxWxH		
MU300-0808BTA16	8-point DC24V input, 8-point transistor output (16 bus axis)			
MU300-0808BTA8	8-point DC24V input, 8-point transistor output (8 bus axis)			
MU300-1210BTA16	12-point DC24V input, 10-point transistor output (16 bus axis)	105×90×85		
MU300-1210BTA8	12-point DC24V input, 10-point transistor output (8 bus axis)			
MU300-1210BRA16	12-point DC24V input, 10-point relay output			
MU300-1210BRA8	12-point DC24V input, 10-point relay output			
MU300-2424BTA16	24-point DC24V input, 24-point transistor output (16 bus axis)	10000005		
MU300-2424BTA8	24-point DC24V input, 24-point transistor output (16 bus axis)	- 180×90×85		

Flexible expansion

- IO point expands up to 272
- Support up to 12 special function modules and 2 expansion cards

Simplified programming

- Convenient hardware configuration
- Tabulation communication
- High-level C language programming
- Modularization programming
- Multi-window display programming
- Safe and reliable with multiple protections



Basic Module (AC Power)

Model	Description	Dimensions(mm) LxWxH		
MU200-4040BTA	40-point DC24V input, 40-point transistor output	0.4.4 .0005		
MU200-4040BRA	40-point DC24V input, 40-point relay output	246x90x85		
MU200-3232BTA	32-point DC24V input, 32-point transistor output	210,400,405		
MU200-3232BRA	32-point DC24V input, 32-point relay output	210x90x85		
MU200-2424BTA	24-point DC24V input, 24-point transistor output	100,000,05		
MU200-2424BRA	24-point DC24V input, 24-point relay output	- 180x90x85		
MU200-1616BTA	16-point DC24V input, 16-point transistor output	145x90x85		
MU200-1616BRA	16-point DC24V input, 16-point relay output	145X90X05		

IO Expansion Module Applicable to the basic modules of MU300/MU200 series PLC

Model	Description	Dimensions(mm) LxWxH
MU200-0016ERN	16-point relay output	
MU200-0016ETN	16-point transistor output	
MU200-1600ENN	16-point intput	60x90x85
MU200-0808ERN	8-point DC24V input, 8-point relay output	
MU200-0808ETN	8-point DC24V input, 8-point transistor output	

Special Function Module Applicable to the basic modules of MU300/MU200 series PLC

Model	Description	Dimensions(mm) LxWxH
MU200-4AD	4-channel analog quantity input	
MU200-8AD	8-channel analog quantity input	
MU200-4DA	4-channel analog quantity output	60x90x85
MU200-8TC	8-channel thermocouple	
MU200-4PT	4-channel thermal resistance	

Expansion Card Applicable to the basic modules of MU300/MU200 series PLC

Model	Description	Dimensions(mm) LxWxH
MUE-4X	4-point input	
MUE-4Y	4-point output	
MUE-4XY	2-point input and 2-point output	
MUE-2AD	2-channel analog quantity input	
MUE-2DA	2-channel analog quantity output	38x46.4x11.5
MUE-2AM	1-channel analog quantity input and 1-channel analog quantity output	
MUE-RS232	RS232 communication	
MUE-RS485	RS485 communication	
MUE-CAN	CAN communication	

MC700 Series Motion Controller

MC700 series product is a high-performance and high-reliability motion controller, which supports multi-axis EtherCat control, C language programming, linear interpolation, circular interpolation, spiral interpolation, E-gear, high-speed pulse capture and pulse output. It is widely used in industrial robots, special machine tool equipment, cutting equipment, electronic processing equipment, etc.

Product Feature

Stron

g motion control:	Support EtherCAT motion control
6	-channel 2M differential pulse output, 2-cl
6	-channel 200K high-speed pulse inputs an
S	Support E-CAM, interpolation, synchronizat
ch interface:	thernet, 2*RS485, RS232, SD card, etc.
arge capacity: 3	20K-step program capacity, 2M Byte C langu

Model and Specification

lte	m	MC700P6	MC700E		
Handride and stift and an	Dimensions(L*W*H) (mm)	260*140*27			
Hardware specification	Power supply voltage	24V			
	Ethernet	2 × GbE			
Communication	RS485 port	2	1		
	RS232 port	1			
Lliph apped IQ	High-speed output channel	6 (2M differential output)	4 (200KHz output)		
High-speed IO	High-speed count channel(200KHz)	6	6		
Common 10	Input channel	26	24		
Common IO	Output channel	22	26		
Servo axis interface	Servo axis interface	6-channel differential pulse output 2-channel differential encoder input	EtherCAT		
	Level standard	EIA/TIA-485	-		
Pulse axis interface	Pulse speed	4MHz	-		
	Control mode	AB phase/ pulse+direction	-		
	EtherCAT	Support COE protocol, remote IO, 250us synchronization time			
	Ladder diagram	320K step			
Program capacity	User C language	2M k	pyte		
	User Data (excluding SD card)	2M k	pyte		
Execution speed	Ladder diagram	2ms/100	DK step		
Execution speed	C language	24000	lmips		
	Supported motion axis	3.	2		
	Interpolation algorithm	Linear interpolation, circular int	erpolation, spiral interpolation		
Motion Control	E-CAM	Tracking shear CAM, flying	shear CAM, custom CAM		
	E-gear	Suppo	orted		
	G-code import	Supported			
	CAD file import	Suppo	orted		
	Standard C	Supported			
01	Operation mode	Mixed programming with ladder diagram/Independent C-programming			
C Language	Function library	Provide rich standard function li	brary and motion control library		
	User-defined library	Users can encapsulate private function library, and	d support the import, export, encryption functions		



- channel 2M differential encoder input
- Ind 6-channel 200K pulse output
- ation scheme, CAD import and dynamic update data

guage, 2M Byte data capacity

MC280/MC200E Series PLC

MC280/ MC200E series products are integrated motion PLCs developed by MEGMEET, which use dual-core processor of ARM+FPGA with multi-task parallel processing in 0.065µs program execution speed. They support interpolation, electronic gear, electronic CAM and other motion control functions, to fully meet the needs of municipal equipment, textile, printing, HVAC, and others.

	COMPLE TREMELON	MC280-1616BTA6	10 11 12 12 12 14 15 15 17 10 11 12 12 14 15 15 15 17 10 11 12 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 15 15 10 11 12 15 15 15 15 15 15 15 15 15 15 15 15 15
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Product Feature

Ultra-large capacity

- Program capacity: 32K
- R element capacity: 32K, four times that of the D element

Pulse counting input performance

- 8-channel unidirectional high-speed count, up to 100KHz
- 4 channels of AB phase count, up to 100KHz, support quadruple frequency
- 5V differential signal conversion accessory providing differential counting

Pulse Transmission performance

Superb motion control function*

- Electronic gear, gear ratio is dynamically variable
- 8-axis pulse outputs up to 200KHz
- Support AB phase pulse
- Support interrupt fixed length
- Support the target position changing during operation
- Position closed-loop control; Position interrupt
- Support symmetrical trapezoid, sub-symmetric trapezoid and S-curve acceleration / deceleration
- Variable frequency during pulse transmission with acceleration and deceleration

- Linear interpolation and circular interpolation
- Continuous interpolation
- Synchronous follow, hand wheel function
- Normal and tangent interpolation, spiral interpolation
- Electronic CAM, supports 4 1024-curve tables
- Support simple G code and CAD graphics import

Basic Module

Model	Specification	Dimensions(mm) LxWxH
MC280-1616BTA4	16-point 24VDC input, 16-point transistor output, 4-axis pulse output	
MC280-1616BTA6	16-point 24VDC input, 16-point transistor output, 6-axis pulse output	170-00-02
MC280-1616BTA8	16-point 24VDC input, 16-point transistor output, 8-axis pulse output	170x90x82
MC280-1616BTA8-C	16-point 24VDC input, 16-point transistor output, 8-axis pulse output	
MC280-3624BTD4A	36-point 24VDC input, 24-point transistor output, 4-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	
MC280-3624BTD6A	36-point 24VDC input, 24-point transistor output, 6-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	
MC280-3624BTD8A	36-point 24VDC input, 24-point transistor output, 8-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	275x90x82
MC280-4040BTA4	40-point 24VDC input, 40-point transistor output, 4-axis pulse output	
MC280-4040BTA6	40-point 24VDC input, 40-point transistor output, 6-axis pulse output	
MC280-4040BTA8	40-point 24VDC input, 40-point transistor output, 8-axis pulse output	
MC200E-1616BTA4	16-point 24VDC input, 16-point transistor output, 4-axis pulse output	
MC200E-1616BTA6	16-point 24VDC input, 16-point transistor output, 6-axis pulse output	170x90x82
MC200E-1616BTA8	16-point 24VDC input, 16-point transistor output, 8-axis pulse output	
MC200E-3624BTD4A	36-point 24VDC input, 24-point transistor output, 4-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	
MC200E-3624BTD6A	36-point 24VDC input, 24-point transistor output, 6-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	
MC200E-3624BTD8A	36-point 24VDC input, 24-point transistor output, 8-axis pulse output, 4-point analog quantity input, 2-point analog quantity output	275x90x82
MC200E-4040BTA4	40-point 24VDC input, 40-point transistor output, 4-axis pulse output	
MC200E-4040BTA6	40-point 24VDC input, 40-point transistor output, 6-axis pulse output	
MC200E-4040BTA8	40-point 24VDC input, 40-point transistor output, 8-axis pulse output	

Motion Control Function

Madal		Plane Inte	erpolation		Space Int	terpolation			5.0414	E-CAM E-gear	
Model	G Code	Circular	Linear	3-axis linear	4-axis linear	Helical line	Normal/Tangent	Interpolation Axis/Speed	E-CAIVI	E-gear	
MC280-1616BTA4 MC280-1616BTA6 MC280-1616BTA8	Supported	1	1	1	1	1	1	100KHZ	-	1	
MC280-1616BTA8-C	-	-	-	-	-	-	-		2	1	
MC280-3624BTD4A MC280-3624BTD6A MC280-3624BTD8A	Supported	2	2	2	2	2	2	100KHZ	4	8	
MC280-4040BTA4 MC280-4040BTA6 MC280-4040BTA8	Supported	2	2	2	2	2	2	100KHZ	4	8	
MC200E-1616BTA4 MC200E-1616BTA6 MC200E-1616BTA8	-	-	-	-	-	-	-	-	-	1	
MC200E-3624BTD4A MC200E-3624BTD6A MC200E-3624BTD8A	-	-	-	-	-	-	-	-	-	1	
MC200E-4040BTA4 MC200E-4040BTA6 MC200E-4040BTA8	-	-	-	-	-	-	-	-	-	1	



MC200 Series Small PLC

MC200 series PLC is a high stability and high reliability product, with fast instruction processing speed and large program capacity based on its built-in high-performance microprocessor and core computing control system. Itsultra-wide voltage range and excellent networking capability make it widely used in municipal equipment, textile, printing, HVAC, and others.



Product Feature

High speed and large capacity

- Program capacity: 12K
- Basic instruction speeds up to 0.09µs

High stability and reliability

- Ultra-wide voltage range: 85V~280V
- Input filter protection and power loss protection
- Strict three defense protection processing

Reliable program security

 8-bit password protection, can be set to prohibit program upload and prevent unauthorized program replication

Strong expansion capability

- IO expands up to 512 points
- Special function module can extend up to 8 modules
- Provide IO module with power supply

Excellent communication networking

- Support MCBUS network communication protocol, MODBUS protocol, and OPC service
- Support CAN free protocol, CANopen protocol
- Support Ethernet, MODBUS TCP/IP protocols

Basic Module (AC Power)

Specification	Model
20-point 24VDC input, 12-point relay	MC200-2012BRA
20-point 24VDC input, 12-point trans	MC200-2012BTA
32-point 24VDC input, 32-point relay	MC200-3232BRA
32-point 24VDC input, 32-point tran	MC200-3232BTA
40-point 24VDC input, 40-point relay	MC200-4040BRA
40-point 24VDC input, 40-point tran	MC200-4040BTA

IO Expansion Module Applicable to the basic modules of MC280/MC200E/MC200 series PLC

Model	Specification
MC200-0800ENN	8-point 24VDC input
MC200-1600ENN	16-point 24VDC input
MC200-0008ERN	8-point relay output
MC200-0008ETN	8-point transistor output
MC200-0808ERN	8-point 24VDC input, 8-point relay ou
MC200-0808ETN	8-point 24VDC input, 8-point transist
MC200-0016ERN	16-point relay output
MC200-0016ETN	16-point transistor output
MC200-1616ERN	20-point 24VDC input, 12-point relay
MC200-1616ETN	16-point 24VDC input, 16-point transi
MC200-1616ERA	16-point 24VDC input, 16-point relay
MC200-1616ETA	16-point 24VDC input, 16-point transi

Special Function Module Applicable to the basic modules of MC280/MC200E/MC200 series PLC

Model	Specification
MC200-2AD、MC200-4AD	2-point, 4-point analog quantity input
MC200-2DA、MC200-4DA	2-point, 4-point analog quantity output
MC200-8AD	8-point analog quantity input
MC200-4AM	2-point analog quantity input, 2-point an
MC200-5AM	4-point analog quantity input, 1-point an
MC200-2TC、MC200-4TC	2-point, 4-point thermocouple
MC200-8TC	8-point thermocouple
MC200-2PT、MC200-4PT	2-point, 4-point thermal resistance
MC200-2HC	2-channel high-speed count module: s bi-directional phase 100K; 1-channel pulse

Communication Module Applicable to the basic modules of MC280/MC200E/MC200 series PLC

Model	Specification
MC200-CPM	CANopen master communication module
MC200-CAN	CAN communication module
MC200-RS485	RS485 communication module
MC200-WEN	Ethernet communication module

	Dimensions(mm) LxWxH
v output	158×90×82
sistor output	150X70X02
y output	228x90x82
sistor output	220X7UX02
y output	275x90x82
sistor output	2/5X7UX82

	Dimensions(mm) LxWxH
utput tor output	58x90x82
/ output	
sistor output(Active)	158x90x82
output(Active)	130770802
sistor output(Active)	

	Dimensions(mm) LxWxH
t	
analog quantity output	
nalog quantity output	58×90×82
	30770702
single-phase 200K; se following output 20K	

	Dimensions(mm) LxWxH
ule	
	58x90x82



MC100 Series Small PLC

MC100 series PLC owns the characteristics of small size, large capacity, high configuration and high speed. Based on its powerful positioning and high-speed processing functions, MC100 realizes the control of servo or stepper motor. This series of PLC points cover 16~60, with rich interrupt resources and strong networking capability to fully meet the needs of municipal equipment, textile, printing, HVAC, and others.

MEGMEET*	
л	MU-H=181487K41

Product Feature

Large capacity and high speed

- Program capacity: 16K, Basic instruction: 0.3µs
- Can be extended up to 4 modules
- Integrated input and output of analog quantity

Abundant interrupt resources

 Support communication interruption, pulse interruption, power loss interruption, and interrupt priority setting

Reliable program security

 8-bit password protection, can be set to prohibit program upload and prevent unauthorized program replication

Powerful positioning and processing

- Variable speed pulse output and envelope pulse output, to achieve the servo or stepper motor multi-speed control
- 6-channel high speed pulse input, Max. frequency 50KHz;
 2-channel 100KHz high speed pulse output

Strong networking capability

 Support MCBUS network communication protocol, MODBUS protocol, and OPC service

Basic Module (AC Power)

Model	Specification	Dimensions(mm) LxWxH
MC100-1006BRA	10-point 24VDC input, 6-point relay output	
MC100-1006BTA	10-point 24VDC input, 6-point transistor output	
MC100-1410BRA	14-point 24VDC input, 10-point relay output	- 155X90X79.2
MC100-1410BTA	14-point 24VDC input, 10-point transistor output	
MC100-1614BRA	16-point 24VDC input, 14-point relay output	- 150x90x79.2
MC100-1614BTA	16-point 24VDC input, 14-point transistor output	- 150X90X79.2
MC100-1614BRA1	16-point 24VDC input, 14-point relay output 2-point analog quantity input and 1-point analog quantity output	100,00,70,0
MC100-1614BTA1	16-point 24VDC input, 14-point transistor output 2-point analog quantity input and 1-point analog quantity output	- 182x90x79.2
MC100-2416BRA	24-point 24VDC input, 16-point relay output	- 182x90x79.2
MC100-2416BTA	24-point 24VDC input, 16-point transistor output	102X90X79.2
MC100-3624BRA	36-point 24VDC input, 24-point relay output	- 224.5x90x79.2
MC100-3624BTA	36-point 24VDC input, 24-point transistor output	224.5x90x79.2

Basic Module (AC Power)

Model	Specification	Dimensions(mm) LxWxH
MC100-1006BRD	10-point 24VDC input, 6-point relay output	
MC100-1006BTD	10-point 24VDC input, 6-point transistor output	175-00-70 2
MC100-1410BRD	14-point 24VDC input, 10-point relay output	135x90x79.2
MC100-1410BTD	14-point 24VDC input, 10-point transistor output	
MC100-1614BRD	16-point 24VDC input, 14-point relay output	1500070 0
MC100-1614BTD	16-point 24VDC input, 14-point transistor output	150x90x79.2
MC100-2416BRD	24-point 24VDC input, 16-point relay output	1000070 0
MC100-2416BTD	24-point 24VDC input, 16-point transistor output	182x90x79.2
MC100-3624BRD	36-point 24VDC input, 24-point relay output	224 5-00-20 2
MC100-3624BTD	36-point 24VDC input, 24-point transistor output	224.5x90x79.2

IO Expansion Module

Specific	Model
8-point 24VDC input	MC100-0800ENN
16-point 24VDC input	MC100-1600ENN
8-point relay output	MC100-0008ERN
8-point transistor output	MC100-0008ETN
16-point relay output	MC100-0016ERN
16-point transistor output	MC100-0016ETN
8-point 24VDC input, 8-point re	MC100-0808ERN
8-point 24VDC input, 8-point tr	MC100-0808ETN

Special Function Module

Specifi	Model
2-point analog quantity input	MC100-2AD
2-point analog quantity outpu	MC100-2DA
4-point analog quantity input	MC100-4AD
4-point analog quantity outpu	MC100-4DA
4-point analog quantity input	MC100-5AM
2, 4 points thermocouple	MC100-2TC、MC100-4TC
2, 4 points thermal resistance	MC100-2PT、MC100-4PT
1-channel and 2-channel weig	MC100-1WT、MC100-2WT

ication	Dimensions(mm) LxWxH
	61x90x73.1
	01X90X75.1
relay output	
transistor output	

ication	Dimensions(mm) LxWxH	
ut		
ut	61x90x73.1	
and 1-point analog quantity output	01270275.1	
9		
ghing		

MR400 Series Remote I/O Module

MR400 series remote I/O module is a new generation of adapters launched by MEGMEET. It adopts modular design, supports a variety of communication buses, adapts to mainstream manufacturers, and seamlessly accesses mainstream protocols. The width of the 32-point module is only 22.5 mm, occupying less space; flexible expansion of IO to meet the needs of customers with more solutions.

Product Feature

Various modules

• Digital, analog, temperature and other modules can be configured arbitrarily.

Multi-protocol compatibility

• Conform to the industrial Ethernet communication standard and supports various mainstream industrial protocols (Profinet, Ether-CAT, EtherNet/IP)

Flexible expansion

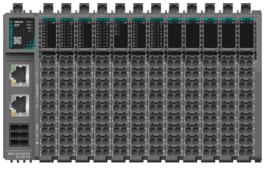
• Support up to 32 expansion modules, to extend the system composition.

Fast installation

• PUSH in terminal, tool-free disassembly and installation

Model and Specification

Item	MR400-ET	MR400-EIP	MR400-PN	
Power supply voltage	24VDC (18V ~ 36V)			
Dimensions (L x W x H)		88mm x 25.55mm x 107mm		
Adaptive IO module		32		
		Digital quantity interface: Su	pported	
Local expansion		Analog quantity interface: Sup	ported	
	Refresh rate:0.5ms			
Bus protocol	EtherCAT (Slave) Ethernet/IP (Slave) Profinet (Slave)			
Slave station quantity	Depended on the slave quantity Depended on the slave quantity Depended on the slave quantity supported by the master supported by the master supported by the master			
Bus frequency		100Mbps		
Transmission distance		≤100M (Station-Station)		
Min. communication cycle	250us 1ms 1ms			
Application	 MC8000、MU400 series PLC; Beckhoff, Siemens series PLC; Mitsubishi、KEYENCE、Omron and other Japanese PLC; Other PLCs supporting Codesys system 			



Intelligent MAD

- Redundant architecture, millisecond fault self-healing
- Powerful module and channel diagnosis

MC5000S Series Remote I/O Module

MC5000S series product is a new generation of adapter developed by MEGMEET, which adopts the modular and industrial design concept. Its communication interface conforms to the industrial bus standard network protocol, and MC5000S can communicate with a variety of mainstream controller and master station at home and abroad, to meet the diversified choices of customers.

Product Feature

Diverse configuration:	Digital quantity, analog quantity, tem
Flexible expansion:	Support up to 12 expansion modules t
Strong compatibility:	The communication interface conform and supports various mainstream mas
Easy to diagnose:	Indicator design for channel detection
Fewer nodes:	A node consists of an adapter, 1 to 12
Easy operation:	Support parameter configuration, aut

Model and Specification

Item	MC5000S-ET	MC5000S-EIP	MC5000S-PN		
Power supply voltage	24VDC (-15%~+20%)				
Dimensions(HxLxW)	113x100x34(mm) 110.5x102x52.2(mm) 110.5x102x52.2(mm)				
Adaptive IO module		12 modules			
		Digital quantity interface: Supported			
Local expansion		Analog quantity interface: Supported			
	Refresh rate:0.5ms				
Bus protocol	EtherCAT(Slave) Ethernet/IP(Slave) Profinet(Slave)				
Slave station quantity	Depended on the node quantity supported by the master station Depended on the node quantity		Depended on the node quantity supported by the master station		
Bus frequency	100Mbps 100Mbps 100Mbps				
Transmission distance	<100M (Station - Station)	<100M (Station - Station)	<100M (Station - Station)		
Min. communication cycle	1ms				
Application	·MC5000, MC6000 series PLC ·Beckhoff, Siemens PLC ·Mitsubishi, KEYENCE, Omron and other Japanese PLC ·Other PLCs supporting Codesys system				



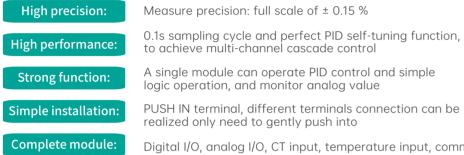
mperature and other modules can be configured randomly

- to extend the system composition
- ms to industrial Ethernet communication standards aster stations
- on and maintenance conveniently
- 2 MC5000 series expansion modules, and an end cover
- Itomatic saving

MQT Series Temperature Controller

MQT series product, a new generation cascade temperature controller, is composed of communication module, temperature control module and expansion module, realizing high-precision temperature control by matching modules flexibly and integrating internal intelligent PID algorithm; it has the advantages of cascade, high precision, multi-point temperature control, background upgrade, free combination, small size and so on.

Product Feature





Digital I/O, analog I/O, CT input, temperature input, communication and others

Specification

ltem	Description		
Power supply	24VDC (-15% ~ 20%)		
	Input type	Thermocouple:K、J、E、N、T、R、B (For all channel)	
	input type	Thermal resistance: Pt100、JPt100、Cu100、Ni120 (For all channel)	
Signal input	Precision	Thermocouple:0.15% (Full scale) + cold compensation	
	Frecision	Thermal resistance:0.3% (Full scale)	
	Sampling cycle	25ms/channel, 100ms/8 channels, 100ms/4 channels	
Control output	Output form	Transistor output (SSR drive output), relay output, current output, voltage output	
controt output	Control action	Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID	
Alarm form		14 alarms, such as upper and lower limit alarm, deviation alarm and so on.	
Alarm output	Output form	Transistor and relay output (output state can be directly controlled by writing registers)	
	Output channel	8 channels	
Digital input		Transistor input	
Digitat input	Input channel	4 channels	
Control cycle		0.1s - 10s or 1s - 100s	
Acquisition channel		4 channels and 8 channels	
Isolation	Exist between power and c	ommunication, power and channel, communication and channel, channel and channel	
Communication port		RS485/Modbus-TCP/EtherNet/EtherCAT/Profinet	
	Ambient temperature	Working: -20 ~ 60 °C, storage: -40 ~ 70 °C	
Constants	Ambient humidity	Working: 10 \sim 90 % RH (no condensation), keeping: 5 \sim 95 % RH (no condensation)	
Generals	Altitude	Below 2000m	
	Protection level	IP20	
C & S	Conform to IEC/EN 61326-1 (For use in industrial locations) ;CE		

Model

Model	Acquisition channel	Temperature control output	Alarm output	Input type
	·	Communication module		
MQT-2TT-ME	2-CH	Modbus TCP/IP/Ethernet	Transistor(4-CH)	тс
MQT-2RT-ME	2-CH	Modbus TCP/IP/Ethernet	Transistor(4-CH)	RTD
MQT-2TT-ET	2-CH	EtherCAT从站	Transistor(4-CH)	ТС
MQT-2RT-ET	2-CH	EtherCAT从站	Transistor(4-CH)	RTD
MQT-2TT-RS	2-CH	Modbus RS485	Transistor(4-CH)	ТС
MQT-2RT-RS	2-CH	Modbus RS485	Transistor(4-CH)	RTD
MQT-2TT-PN	2-CH	Profinet	Transistor(4-CH)	ТС
MQT-2RT-PN	2-CH	Profinet	Transistor(4-CH)	RTD
	Temperature control module			
MQT-4TT	4-CH	Modbus RS485	Transistor(4-CH)	ТС
MQT-4TA	4-CH	Modbus RS485	Analog(4-CH)	ТС
MQT-4TR	4-CH	Modbus RS485	Relay(4-CH)	TC
MQT-4RT	4-CH	Modbus RS485	Transistor(4-CH)	RTD
MQT-4RA	4-CH	Modbus RS485	Analog(4-CH)	RTD
MQT-4RR	4-CH	Modbus RS485	Relay(4-CH)	RTD
		Expansion module		
MQT-8DI	8-CH	8-channel digital input	-	Digital (8-CH)
MQT-8DO	8-CH	8-channel digital output	Digital (8-CH)	-
MQT-8CT	8-CH	8-channel current detection	-	Transformer current
MQT-8DM	8-CH	4-channel digital input, 4-channel digital output	Digital (4-CH)	Digital (4-CH)
MQT-8AI	8-CH	8-channel analog current input	-	Analog (8-CH)
MQT-8AV	8-CH	8-channel analog voltage input	-	Analog (8-CH)
MQT-8AO	8-CH	8-channel analog output	Analog (8-CH)	-

P21 Control System Brochure

MTC/MTCW/MTCV Series Temperature Controller

MTC/MTCW/MTCV series products are multi-channel and high-precision temperature controllers, which are suitable for various occasions of temperature control. Its main feature is compatible with TC and RTD, high measure accuracy; high integration (one module supports up to 12 channels of temperature control and 16 channels of measurement), space saving, easy data exchange, remote monitoring, and high cost performance.

Product Feature

Product Fea	ture
Dedicated software:	Provide special software - MtcCompanion
Dual-PID function:	Heating&cooling dual-PID control function, 14 alarms like upper and lower limits, deviation, etc
High precision:	Intelligent self-tuning and multi-stage temperature setting functions to achieve high-precision temperature control
Multi-way control:	Integrated multi-channel temperature control to centralize data management
Easy exchange:	Data exchange easily between thermostat and PLC, thermostat and HMI, thermostat and computer

through Ethernet and serial port

Specification

Item	Description			
Power supply	24VDC (-15% ~ 20%)			
		Thermocouple: K , J , E , N , T , R , B (For all channel)		
	Input type	Thermal resistance: Pt100、JPt100、Cu100、Ni120 (For all channel)		
Signal input	Precision	Thermocouple: 0.2% (Full scale) + cold compensation Thermal resistance: 0.3% (Full scale)		
	Sampling cycle	25ms/channel, 100ms/8 channels, 100ms/4 channels		
-	Output form	Transistor output (SSR drive output), relay output, current output, voltage output		
Carden Lastant	Control action	Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID		
Control output	Alarm form	14 alarms, such as upper and lower limit alarm, deviation alarm and so on.		
	Output form	Transistor and relay output (output state can be directly controlled by writing registers)		
Alarm output	Output channel	8 channels		
10	Input form	Transistor input		
IO input	Input channel	4 channels		
Control cycle	0.1s - 10s or 1s - 100s			
Acquisition channel	4 channels and 8 channels			
Isolation	Exist between power and	communication, power and channel, communication and channel, (MTCV)channel and channel		
Communication port	MTC/MTCV: One isolated RS485 serial port; support MODBUS slave and MCBUS slave protocol MTCW: One isolated + one non-isolated RS485 serial port, one Ethernet port; support MODBUS slave protocol			
	Ambient temperature	Working: -20 ~ 60 °C, storage: -40 ~ 70 °C		
	Ambient humidity	Working: 10 ~ 90 % RH (no condensation), keeping: 5 ~ 95 % RH (no condensation)		
Generals	Altitude	Below 2000m		
	Protection level IP20			
C & S	Conform to IEC/EN 61326-1 (For use in industrial locations)、UL61010-1;CE、UL			

Product model

MTC series

Model	Acquisition channel	Temperature control output	Alarm output	Input type
MTC-04-NT	4-CH	Transistor (4-CH)	Flag bit	TC, RTD
MTC-08-NT	8-CH	Transistor (8-CH)	Flag bit	TC, RTD
MTC-04-NTT	4-CH	Transistor (4-CH)	Transistor(8-CH), flag bit	TC, RTD
MTC-04-NTR	4-CH	Transistor (4-CH), Relay (8-CH)	Relay(8-CH), flag bit	TC, RTD
MTC-04-NVT	4-CH	Transistor (4-CH) Current(8-CH,0-20mA or 4-20mA) Voltage(8-CH,0-1V,0-5V,0-10V or 1-5V)	Transistor (4-CH)	TC, RTD

MTCW series (Ethernet, 2*RS485)

Model	Acquisition channel	Temperature control output	Alarm output	Input type
MTCW-04-NTT	4-CH	Transistor (4-CH)	Transistor (4-CH), flag bit	TC, RTD
MTCW-04-NI	4-CH	Current (4-CH,0-20mA or 4-20mA)	Flag bit	TC, RTD
MTCW-04-NV	4-CH	Voltage (4-CH, 0-1V, 0-5V, 0-10V or 1-5V)	Flag bit	TC, RTD
MTCW-08-NN	8-CH	-	Flag bit	TC, RTD
MTCW-08-NI	8-CH	Current (8-CH,0-20mA or 4-20mA)	Flag bit	TC, RTD
MTCW-08-NV	8-CH	Voltage(8-CH, 0-1V, 0-5V, 0-10V or 1-5V)	Flag bit	TC, RTD
MTCW-08-NTT	8-CH	Transistor (8-CH)	Transistor (8-CH), flag bit	TC, RTD
MTCW-12-NT	12-CH	Transistor (12-CH)	Flag bit	TC, RTD
MTCW-16-NN	16-CH	-	Flag bit	TC, RTD
MTCW-08-CT	8-CH	Transistor (8-CH)	Flag bit	Current transformer (8-CH) TC, RTD
MTCW-08-NTD	8-CH	Transistor (8-CH heating, 8-CH cooling)	-	TC, RTD

MTCV series (Channel isolation, RS485)

М	Iodel	Acquisition channel	Temperature control output	Alarm output	Input type
MTC	V-16-NT	16-CH	Transistor (16-CH)	Flag bit	TC, RTD
MTC	V-08-NT	8-CH	Transistor (8-CH)	Flag bit	TC, RTD

MTCE Series Temperature Controller

MTCE series product, as a multi-channel high-precision EtherCAT temperature controller, are adapted to various mainstream master stations. Its main feature is compatible with thermocouples and thermal resistors, high measurement accuracy, feature-rich, user-friendly. It has the characteristics of high integration, space saving, easy data exchange, remote monitoring, and high cost performance.

Product Feature

Networking capacity: EtherCAT



Measure accuracy: full scale of ± 0.15 % ; control accuracy: $\pm 0.2^\circ$ C



High precision:

0.1s sampling cycle, and 1ms synchronization cycle; a single module can operate PID control and simple logic operation, and monitor analog value

Specification

Item	Description				
Power supply	24VDC (-15% ~ 20%)				
	Input type	Thermocouple:K、J、E、N、T、R、B (For all channel)			
	input type	Thermal resistance: Pt100、 JPt100、 Cu100、 Ni120 (For all channel)			
Signal input	Precision	Thermocouple: 0.15% (Full scale) + cold compensation			
	Precision	Thermal resistance:0.3% (Full scale)			
	Sampling cycle	25ms/channel, 100ms/8 channels, 100ms/4 channels			
	Output form	Transistor output (SSR drive output)			
Control output	Output channel	10 channels			
	Control action	Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID			
	Alarm form	14 alarms, such as upper and lower limit alarm, deviation alarm and so on.			
Alarm output	Output form	rm Transistor output (SSR drive output)			
	Output channel 10 channels				
Control cycle		0.1s - 10s or 1s - 100s			
Acquisition channel		10 channels			
Isolation	Exist between power and	communication, power and channel, communication and channel, channel and channel			
Communication port	EtherCAT				
	Ambient temperature	Working: -20 ~ 60 °C, storage: -40 ~ 70 °C			
Generals	Ambient humidity	Working: 10 ~ 90 % RH (no condensation), keeping: 5 ~ 95 % RH (no condensation)			
Generals	Altitude	Below 2000m			
	Protection level	IP20			
C & S	Conform to IEC/EN 61326-1 (For use in industrial locations) ;CE				

Product model

Model	Acquisition channel	Temperature control output	Alarm output	Input type
MTCE-10T-NT	10-CH	Transistor	Flag bit	TC
MTCE-10R-NT	10-CH	Transistor	Flag bit	RTD

MCAS Series Temperature Controller

MCAS series temperature controller takes the lead in realizing the self-tuning PID and calibration parameters of cascade control in the industry based on the advanced self-tuning and self-learning control algorithm, which greatly simplifies the debugging of complex cascade control.

Product Feature

Cascade control:	A single module supports 4-channel
High performance:	0.1s sampling cycle
High precision:	Measure accuracy: full scale of ± 0.15 cascade control accuracy: ± 0.5

Specification

Item	Description				
Power supply	24VDC (-15% ~ 20%)				
		Thermocouple:K、J、E、N、T、R、B (For all channel)			
Signal input	Input type	Thermal resistance: Pt100、JPt100、Cu100、Ni120 (For all channel)			
Signat input	Precision	TC:0.15% (Full scale) + cold compensation RTD:0.3% (Full scale)			
	Sampling cycle	25ms/channel, 100ms/8 channels, 100ms/4 channels			
	Output form	Transistor output (SSR drive output)			
Control output	Output channel	4/8 channels			
	Control action	Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID			
	Alarm form	14 alarms, such as upper and lower limit alarm, deviation alarm and so on.			
Alarm output	Output form	Transistor output (SSR drive output)			
	Output channel	4/8 channels (Transistor)			
Control cycle		0.1s - 10s or 1s - 100s			
Acquisition channel		6/8 channels			
Isolation	Exist between power and	communication, power and channel, communication and channel, channel and channel			
Communication port	One isolated + one	non-isolated RS485 serial port, one Ethernet port; support MODBUS slave protocol			
	Ambient temperature	Working: -20 ~ 60 °C, storage: -40 ~ 70 °C			
Generals	Ambient humidity	Working: 10 ~ 90 % RH (no condensation), keeping: 5 ~ 95 % RH (no condensation)			
Generals	Altitude	Below 2000m			
	Protection level	IP20			
C & S	Conform to IEC/EN 61326-1 (For use in industrial locations)、UL61010-1;CE、UL				

Product model

Model	Acquisition channel	Temperature control output Alarm output		Input type
MCAS-06-NI	6-CH	Current (6-CH,0-20mA or 4-20mA)	Flag bit	TC, RTD
MCAS-06-NV	6-CH	Voltage (6-CH, 0-1V, 0-5V, 0-10V or 1-5V)	Flag bit	TC, RTD
MCAS-08-NI	8-CH	Current (6-CH,0-20mA or 4-20mA)	Flag bit	TC, RTD
MCAS-08-NV	8-CH	Voltage (8-CH, 0-1V, 0-5V, 0-10V or 1-5V)	Flag bit	TC, RTD
MCAS-08-NTT	8-CH	Transistor (8-CH)	Transistor (8-CH), flag bit	TC, RTD

el cascade temperature control





MDT Series Temperature Controller

MDT series product with high-brightness LED display function is cost-effective for occasions with few temperature control channels (the module supports up to 2 channels). It has the characteristics of low temperature drift coefficient and 50Hz/ 60Hz interference suppression, supports two input isolation, and the isolation withstand voltage is up to 500VDC.

Product Feature

Dedicated software:Provide special software - MtcCompanionEasy operation:Digital tube display, support keyboard and software operationHigh precision:Support self-tuning and multi-stage temperature setting functionSimple installation:Small size and guide-rail installation



Specification

Item	Description				
Power supply	24VDC (-15% ~ 20%)				
	Input type —	Thermocouple:K、J、E、N、T、R、B (For all channel)			
Cignal input	input type	Thermal resistance: Pt100、JPt100、Cu100、Ni120 (For all channel)			
Signal input	Precision	Thermocouple:0.2% (Full scale) + cold compensation hermal resistance:0.3% (Full scale)			
	Sampling cycle	25ms/channel, 100ms/8 channels, 100ms/4 channels			
	Output form	Transistor output (SSR drive output), relay output			
Control output	Output channel	1 channel / 2 channels			
	Control action	Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID			
	Alarm form	14 alarms, such as upper and lower limit alarm, deviation alarm and so on.			
Alarm output	Output form	Transistor and relay output (output state can be directly controlled by writing registers)			
	Output channel	1 channel / 2 channels			
Control cycle		0.1s - 10s or 1s - 100s			
Acquisition channel		1 channel / 2 channels			
Isolation	Exist between powe	er and communication, power and channel, communication and channel, channel and channel			
Communication port	(One isolated RS485 serial port; support MODBUS slave and MCBUS protocol			
	Ambient temperature	Working: -20 ~ 60 °C, storage: -40 ~ 70 °C			
Generals	Ambient humidity	Working: 10 ~ 90 % RH (no condensation), keeping: 5 ~ 95 % RH (no condensation)			
	Altitude	Below 2000m			
	Protection level	IP20			
C & S	Conform to IEC/EN 61326-1 (For use in industrial locations) ;CE				

Model

Model	Acquisition channel	Temperature control output	Alarm output	Input type
MDT-01R-R	1-CH	Relay	Relay	RTD
MDT-01R-T	1-CH	Transistor	Transistor	RTD
MDT-01T-R	1-CH	Relay	Relay	TC
MDT-01T-T	1-CH	Transistor	Transistor	TC
MDT-02R-R	2-CH	Relay	Relay	RTD
MDT-02R-T	2-CH	Transistor	Transistor	RTD
MDT-02T-R	2-CH	Relay	Relay	TC
MDT-02T-T	2-CH	Transistor	Transistor	TC

Cable List

Model	Description	Terminal				
	PLC					
MCA200-CA10	RS232 programming cable for computer USB port and PLC (2m)	USB-MiniDin8				
MCA200-CA01	RS232 programming cable for computer and PLC (Non-isolated, 2m)	DB9F-MiniDin8				
MCA200-CA02	RS232 programming cable for computer and PLC (Isolated, 2m)	DB9F-MiniDin8				
MCA200-CA17	RS485 communication cable for computer and PLC (2m)(MC280, round-hole)	USB-MiniDin8				
MCA200-CA18	RS485 communication cable of PLC	MiniDin8-RS485 terminal				
MCA200-CA11	Computer USB port to RS232 cable (2m)(DB9)	USB-DB9M				
MCA200-CA04	Extension cable for MC200 expansion module (0.65m)	Cable connector(male)-Cable connector(female)				
MCA200-CA05	Extension cable for MC200 expansion module (1m)	Cable connector(male)-Cable connector(female)				
	HMI and text displayer					
MCA-200-CA09	RS232 communication cable between MZ600 series HMI and PLC (3.5m)	DB9M-MiniDin8				
MCA-200-CA14	RS232 communication cable between MZ600 series HMI and PLC (2m)	DB9M-MiniDin8				
MCA-200-CA16	RS232 communication cable between MZ800 series HMI and PLC (8m)	DB9M-MiniDin8				
MCA-200-CA01	RS232 communication cable between MZ800 series HMI and PLC (2m)	DB9F-MiniDin8				
	Other					
MCA200-CA12	Download cable between computer and MC120/MC160/ thermostat (2m)	USB-RS485				
MCA200-CA13	Download cable between computer and handheld operation box/data record box (2m)	USB-RJ45				
MCA200-UDM01SL1	Connection cable between PLC and handheld upload-download program operation box (MCA200-UDM01)	RJ45-MiniDin8				

MZ800 Series Human Machine Interface

MZ800 series HMI seamlessly can support to the G-code function of MEGMEET PLC, which is easy to program, and supports multi-language interface, recipe upload and download, data collection, real-time curve, report function, alarm, etc. MZ800 can communicate with various mainstream PLCs based on the communcation drivers.

Picture	Die DR		NOMEY			
Model/Series	MZ800-TT05SK30/31	MZ800-TT107SK30	MZ800-TT207SK30/31	MZ800-TT207SK30/31W	MZ800-TT210SK30/31	
Display size	4.3" (16: 9 TFT LCD screen)	7" (16: 9 TFT LCD screen)	7" (16: 9 TFT LCD screen)	7" (16: 9 TFT LCD screen)	10.1" (16: 9 TFT LCD screen)	
Resolution	480x272	800x480		1024x600		
Display material			TFT color touch(LCD screen)			
Effective display size (T/B/L/R)	50'/70'/70'	50'/70'/70'/70'	30: 50'/70'/70'/70' 31: 85'/85'/85'/85	85'/85'/85	85'/85'/85'/85	
Brightness	30: 360/31:300	250	30:360/31:450	350	400	
Display color	24-bit color	16-bit color		24-bit color		
Touch screen		4-1	vire industrial resistance touch screer	1		
CPU	600MHz ARM Cortex-A8	720MHz ARM 4-core 1.2GHz ARMCortex-A7				
Memorizer	128MB Flash+128MB DDR3	64MB RAM+128MB Flash		128MB DDR3+4GB EMMC		
RTC		Built-in real-time clock				
Ethernet	30: None 31: 10M/100M(Adaptive)	None 30: None 31: 1-CH 10M/100M(Adaptive)				
SD card	Nor	e	30: None 3	1: Supported	Supported	
USB port		c	ne USB Slave 2.0; One USB Host 2.0			
Serial interface		COM1:RS232/RS485/RS422 COM3:RS232			/RS485/RS422 422 COM3: RS232	
Rated power	<5W		<1(DW		
Rated voltage			DC24V, ranging from DC 9V to 28V			
Power supply protection			Lightning surge protection			
Power-lossing time			<5ms			
CE	Conform to EN61000-6-2:20	05, EN61000-6-4:2007 standard; Cor	form to RoHS, lightning surge±1KV,	group pulse±2KV; electrostatic conta	ct 4KV, air discharge 8KV	
Operation temperature	30:-20~50C/31:-25~75℃		0~5	50°C		
Storage temperature	30:-25~60°C/31:-30~80°C	-20~60°C				
Ambient humidity		10~90%RH (No condensation)				
Shake-resistance	10-25Hz(X、Y、Z direction 2G/30 min)					
Protection grade	The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20.					
Mechanical structure	30:Engineering plastic 31:Aluminum alloy+Galvanized sheet, powder-coated surface	Engineering plastic				
Overall dimensions	30:130x104x32/31:130x104x43	204x145x33.8 273x213x36				
Hole size	120x93	192x138 260x202				

AccureImage: Image:							
Display state10.11" [16.9 TFT LCD screen]54.0" (6.9 TFT LCD screen]10.1" (6.9 TFT LCD screen]10.1" (6.9 TFT LCD screen]22" (16.9 TFT LCD screen]Resolution10.04-65011720-10008030-46010.21" (16.9 TFT LCD screen]22" (16.9 TFT LCD screen]Display methodTT cols touchLCD screen]Belgeby method657857185"56777107/70"457857185"557857185"557857185"Belgebrees6000 2005000 1000 1000 200Display colspan="2">Colspan="2">6478571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"55718571855571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185"5571857185555718571855557185718555	Picture			THE OFFICE AND	LOUR P	-	
Resolution1024x400192br1000800x4601024x400192br1000BigBay motionalTTT Color fourth(CD socient)TTT Color fourth(CD socient)857857857857857857857857BigBay motional8578578578578585785785785785785785785785857857857857857857857857857857BigBay color44002503504400220BigBay color24 bit color16 bit color24 bit color16 bit colorTouch screen4 wire industrial resistance touch screenColors-R8600MEx AML Colors-R8600MEx AML Colors-R8CPU4 core 1.2014 ARRColors-A710 AMR Colors-R8600MEx AML Colors-R8600MEx AML Colors-R8600MEx AML Colors-R8Memotrine12 Mile Disk-1.6218 BitMaC25MB Bitm-153MB DDB325 ABMR Bitm-53MB DDB325 ABMR Bitm-53MB DDB325 ABMR Bitm-53 ABMR DDB3BTC50 None 51.1CH 10M/100M/Adgetive2 CH 10M/100M/Adgetive100/100M/Adgetive10M/100M/Adgetive10H/100M/AdgetiveStored50 None 51.1CH 10M/100M/AdgetiveColer USB Bave 2.0, One US	Model/Series	MZ800-TT210SK30W	MZ800-TT215SK31	MZ800-TT07SK31M	MZ800-TT210SK31M	MZ800-TT22P	
Deploy material UTT colar back/LOD screen) Effective diglog size (TBURP) ASYME/ME/MS*	Display size	10.1" (16: 9 TFT LCD screen)	15.6" (16: 9 TFT LCD screen)	7" (16: 9 TFT LCD screen)	10.1" (16: 9 TFT LCD screen)	22" (16: 9 TFT LCD screen)	
Effective display value (HBURN) BS/BS/BS/BS BS/BS/BS/BS/ SB/BS/BS/BS/BS/BS/BS/BS/BS/BS/BS/BS/BS/B	Resolution	1024x600	1920x1080	800x480	1024x600	1920x1080	
CTRUPP CTRUPP BigintenseDiscriptionDiscriptionDistributionBigintense400250560400250Display color24-bit color16-bit color24-bit color16-bit colorTouch screenCPU4-core 1.20Hz AMMOREV.AP16 ARM Cortex-AB400MHz AMM Cortex-AB80MHz AMM Cortex-ABCPU4-core 1.20Hz AMMOREV.AP16 ARM Cortex-AB600MHz AMM Cortex-AB80MHz AMM Cortex-ABCPU4-core 1.20Hz AMMOREV.AP16 ARM Cortex-AB600MHz AMM Cortex-AB80MHz AMM Cortex-ABRescheringer128AB DDB3-4GB BMAC254MB Frant-12AM DDB3123M Frant-12AM DDB3255MB Frant-32AMB DDB3RTC50 None 31: 1-0H 10M/10MAdaptivel2-0H 10M/10MAdaptivel10M/10M/Adaptivel1-0H 10M/10M/AdaptivelSpeard30 None 31: 1-0H 10M/10MAdaptivel2-0H 10M/10M/Adaptivel10M/10M/Adaptivel1-0H 10M/10M/AdaptivelSpeard30 None 31: 1-0H 10M/10M/Adaptivel10M/10M/Adaptivel10M/10M/Adaptivel1-0H 10M/10M/AdaptivelSpeardCOME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 COME RESERVERSE22 	Display material			TFT color touch(LCD screen)			
Deploy color 24-bit color 16-bit color 24-bit color 16-bit color Deploy color Q4-bit color 4-wire industrial resistorce touch screen Class=Glass projected multi-point coport/once touch screen OPU 4-core 1.2GHz ABM.Cortex A7 1G ARM.Cortex A8 600MHz ABM.Cortex A8 800MHz ABM.Cortex A		85'/85'/85'/85'	85'/85'/85'/85'	50'/70'/70'/70'	85'/85'/85'/85'	85'/85'/80'/80'	
Touch screen Const-Gloss projected multipolitic OPU 4-core 1.20Ex ARMCortex-A7 1G ARM Cortex-A8 600MHz ARM Cortex-A8 800MHz ARM Cortex-A8 <th< td=""><td>Brightness</td><td>400</td><td>250</td><td>360</td><td>400</td><td>250</td></th<>	Brightness	400	250	360	400	250	
NUME Hausdid resultation interstation int	Display color	24-bit color	16-bit color	24-bit	color	16-bit color	
Memorizer128MB DDR3-4GB BMAC256MB Flash+152MB DDR3128M Flash+122M DDR3256MB Flash+250MB DDR3RTC50: Nore 31: 1-CH 10M/100M(Adaptive)2-CH 10M/100M(Adaptive)1.0M/100M(Adaptive)1.CH 10M/100M(Adaptive)SD cordSupportedSupportedSupportedSD cordCOMI: R5:323/R5485/R5422 COM2: R5:323/R5485/R5422 COM2: R5:458/R5422 COM2: R5	Touch screen		4-wire industrial resista	ance touch screen			
RTCBull+ In red-time clockEthernet30: None 31: 1-CH 10M/100M/Adaptive)2-CH 10M/100M/Adaptive)10M/100M/Adaptive)1-CH 10M/100M/Adaptive)SD cardSupportedSupportedCH 10M/100M/Adaptive)2-CH 10M/100M/Adaptive)1-CH 10M/100M/Adaptive)SD cardSupportedSupportedCone USB Sove 2.0; One USB Host 2.0 Cone USB Host 2.0 Cone USB Host 2.0; One USB Host 2.0; One USB Host 2.0; One USB Host 2.0; One USB Host 2.0; COM1/COM2-R5232/R5485/R5422; COM2-R5485/R5422; COM2-R5485/R5422; COM2-R5485/R5422; COM2-R5485/R5422; COM3/COM2-R5232/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R5422; COM3/R5485/R	CPU	4-core 1.2GHz ARMCortex-A7	1G ARM Cortex-A8	600MHz ARM	Cortex-A8	800MHz ARM Cortex-A8	
Ethernet30: None 31: 1-CH 10M/100M/Adaptive)2-CH 10M/100M/Adaptive)10M/100M/Adaptive)1-CH 10M/100M/Adaptive)SD cardSupportedSupportedSupportedOne USB Sove 2.0; One USB Not	Memorizer	128MB DDR3+4GB EMMC	256MB Flash+512MB DDR3	128M Flash+1	28M DDR3	256MB Flash+256MB DDR3	
SD card Supported USB port One USB Slave 2.0; One USB Host 2.0 One USB Device 2.0; One USB Host 2.0 One USB Device 2.0; One USB Host 2.0; One USB Host 2.0 Serial interface COMI: B5232/R5485/R5422 COM2: R5485/R5422 COM3: R5232 COM3: R5232/R5485/R5422; COM3: R5232/COM3: R5232 COM1: R5232/R5485/R5422; COM3: R5232/COM3: R5232 COM1: R5232/R5485/R5422; COM3: R5	RTC		Built-in real-time clock				
USB port One USB Barke 2.0; One USB Host 2.0; One USB Host 2.0; One USB Host 2.0; One USB Host 2.0	Ethernet	30: None 31: 1-CH 10M/100M(Adaptive)	1-CH 10M/100M(Adaptive)				
Use part One USB hold 2.0 (bit USB hold 2.0) One USB hold 2.0 Serial interface COM1: R5232/R5485/R5422 COM2: R5485/R5422 COM3: R5232 COM3:R5332/R5485/R5422; COM3:R5485/R5422 COM3: R5232 COM1:R5232/R5485/R5422; COM3:R5232 COM1:R548 COM1:R5232/R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548 COM1:R5485/R5422; COM3:R548	SD card			Supported			
Serial interface COM2:R542/COM3:R5222 COM3:R542/COM3:R5222 COM3:R542/COM3:R5222 COM2:R548/R5422 COM3:R542/COM4:R5232 COM3:R542/COM3:R5232 Roted power <10W	USB port		One USB Slave 2.0; C	ine USB Host 2.0			
Reted voltage DC24V, ranging from DC9V to 28V DC24V, ranging DC18V to 28V Power supply protection Lightning surge protection Power-lossing time <5ms CE Conform to EN61000-6-2:2005, EN61000-6-4:2007 standard; Conform to RoHS, lightning surge±1KV, group pulse±2KV; electrostatic contoct 4KV, air discharge8KV Operation temperature 0-50°C 0-50°C -20-70°C -10-60°C -20-70°C Storage temperature -20-60°C -20-60°C -30-80°C -20-70°C -20-60°C Ambient humidity 10-25Hz(X, Y, Z direction 2G/30 min) The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20. Mechanical structure Engineering plastic Aluminum alloy shell Aluminum alloy +Galvanized sheet, powder-coated surface Aluminum alloy shell	Serial interface				COM2:RS485/RS422		
Power supply protection Lightning surge protection Power-lossing time <5ms	Rated power	<10W	<18W	<10	N	<20W	
Power-lossing time <5ms CE Conform to EN61000-6-2:2005, EN61000-6-4:2007 standard; Conform to RoHS, lightning surge±1KV, group pulse±2KV; electrostatic contact 4KV, air discharge8KV Operation temperature 0-50°C 0-50°C -20-70°C -10-60°C -20-70°C Storage temperature -20-60°C -20-60°C -30-80°C -20-70°C -20-60°C Ambient humidity 10-90%RH (No condensation)	Rated voltage	DC24V, ranging from DC9V to 28V		DC24V, rangin	g DC18V to 28V		
CE Conform to EN61000-6-2:2005, EN61000-6-4:2007 standard; Conform to RoHS, lightning surge±1KV, group pulse±2KV; electrostatic contoct 4KV, air discharge8KV Operation temperature 0-50°C 0-50°C -20-70°C -10-60°C -20-70°C Storage temperature -20-60°C -20-60°C -30-80°C -20-70°C -20-60°C Ambient humidity -20-60°C -10-90%RH (No condensation) -20-60°C -20-60°C -20-60°C Shake-resistance 10-25Hz(X, Y, Z direction 2G/30 min) - - - - Protection grade The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20. Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy+Sall Aluminum alloy+Sall Aluminum alloy shell Siox 338x61 Overall	Power supply protection			Lightning surge protection			
Operation temperature0-50°C0-50°C-20-70°C-10-60°C-20-70°CStorage temperature-20-60°C-20-60°C-30-80°C-20-70°C-20-60°CAmbient humidity-20-60°C10-90%RH (No condensation)-20-70°C-20-60°CShake-resistance10-25Hz(X, Y, Z direction 2G/30 min)-20-70°C-20-60°CProtection gradeThe front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20.Aluminum alloy+Galvanized sheet, powder-coated surfaceMechanical structureEngineering plasticAluminum alloy shellAluminum alloy+Galvanized sheet, powder-coated surfaceAluminum alloy shellOverall dimensions273x213x36394x256x36200x146x40274x214x39530x338x61	Power-lossing time			<5ms			
Storage temperature -20-60°C -20-60°C -30-80°C -20-70°C -20-60°C Ambient humidity -20-70°C -30-80°C -20-70°C -20-60°C Ambient humidity	CE	Conform to EN61000-6-2:2005,	EN61000-6-4:2007 standard; Cont	orm to RoHS, lightning surge±1KV, g	roup pulse±2KV; electrostatic cont	act 4KV, air discharge8KV	
Ambient humidity 10-90%RH (No condensation) Shake-resistance 10-25Hz(X, Y, Z direction 2G/30 min) Protection grade The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20. Mechanical structure Engineering plastic Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Overall dimensions 273x213x36 394x256x36 200x146x40 274x214x39 530x338x61	Operation temperature	0-50℃	0-50°C	-20-70°C	-10~60°C	-20-70°C	
Shake-resistance 10-25Hz(X, Y, Z direction 2G/30 min) Protection grade The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20. Mechanical structure Engineering plastic Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy-Galvanized sheet, powder-coated surface Overall dimensions 273x213x36 394x256x36 200x146x40 274x214x39 530x338x61	Storage temperature	-20~60℃	-20~60℃	-30-80°C	-20~70℃	-20~60°C	
Protection grade The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20. Mechanical structure Engineering plastic Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy shell Aluminum alloy 4 Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy 4 Galvanized sheet, powder-coated surface Overall dimensions 273x213x36 394x256x36 200x146x40 274x214x39 530x338x61	Ambient humidity			10~90%RH (No condensation)		·	
Mechanical structure Engineering plastic Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Aluminum alloy shell Aluminum alloy+Galvanized sheet, powder-coated surface Overall dimensions 273x213x36 394x256x36 200x146x40 274x214x39 530x338x61	Shake-resistance		10-	-25Hz(X、Y、Z direction 2G/30 min)			
Mechanical stratcure Engineering pastic Adminiant alloy stein powder-coated surface Adminiant alloy stein powder-coated surface Overall dimensions 273x213x36 394x256x36 200x146x40 274x214x39 530x338x61	Protection grade	The front panel conforms to IP65 (with flat cabinet installation), and the rear cabinet conforms to IP20.					
	Mechanical structure	Engineering plastic	Aluminum alloy shell		Aluminum alloy shell		
Hole size 260x202 380x245 192x138 260x202 502x302	Overall dimensions	273x213x36	394x256x36	200x146x40	274x214x39	530x338x61	
	Hole size	260x202	380x245	192x138	260x202	502x302	