摩通传动

Empower infinite connectivity of the bus

Product selection guide

PROFINET EtherNet/IP EtherCAT Modbus TCP

CC-Link IE Field Basic DeviceNet CC-Link CANopen

MSR series integrated bus I/O module

MR6 series miniaturized integrated bus I/O module

MB6 series plug-in bus I/O module

About Us

MT Drive & Control (Shenzhen) Co., Ltd. We are a national high-tech enterprise focusing on core components and turnkey complete solutions for advanced manufacturing. Upholding the core values of Focus, Innovation, Leadership, we have built a three-tier industrial product architecture covering control, servo and sensors. We are committed to delivering more advanced, reliable, efficient and competitive full-set industry solutions.

Headquartered in Shenzhen, China's innovation hub, the company operates a R&D Center, Quality Center, Production Center, Administration Center, Marketing Center and a Suzhou Sales Branch. As a pioneer and leader in multi-axis transmission technology, our product portfolio includes motion PLCs, servo systems, integrated drive-control systems, remote I/O modules and other core components.

Our products support mainstream industrial fieldbus protocols including PROFINET, EtherCAT and EtherNet/IP. With proprietary technical architecture and outstanding performance, they are widely applied in photovoltaic, lithium battery, robotics, CNC & metalworking/woodworking/glass/semiconductor processing, logistics warehousing, 3C, automotive manufacturing, printing & packaging, tobacco and other industries.

Adhering to long-term value-oriented development, MT-Drive synchronously develops core industrial components and customized industry turnkey solutions. As our product lineup continues to expand, we provide all-round industrial services and actively drive the development of the manufacturing sector.

Corporate Vision

Leading brand in the field of multi axis transmission

Core values

Empower multi axis motion control scenarios and grow together with partners

Patents&Qualifications

Having multiple core and key technologies in the field of transmission

- Obtained over 50 intellectual property rights
- Has passed CE, UL, RoHS, FCC and other product certifications
- Has passed ISO9001 quality system certification

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Integrated bus I/O module

MSR series integrated IO module

MR6 series miniaturized integrated IO module

Overview of Integrated I/O Module Products

Compact structure: power supply, communication, IO and other functions are highly integrated into one module

Convenient wiring: using pluggable terminals for easy on-site pre wiring

Easy installation: snap on guide rail structure, easy to disassemble and maintain

Multiple configurations: with 16 and 32-bit signal points, suitable for various bus installation sites. **Mainstream protocols:** supports multiple bus communication protocols such as EtherCAT and PROFINET.5

Naming rules

M**-EC-1616NT

Product series	
MSR	Integrated bus IO
MR6	Compact integrated bus IO

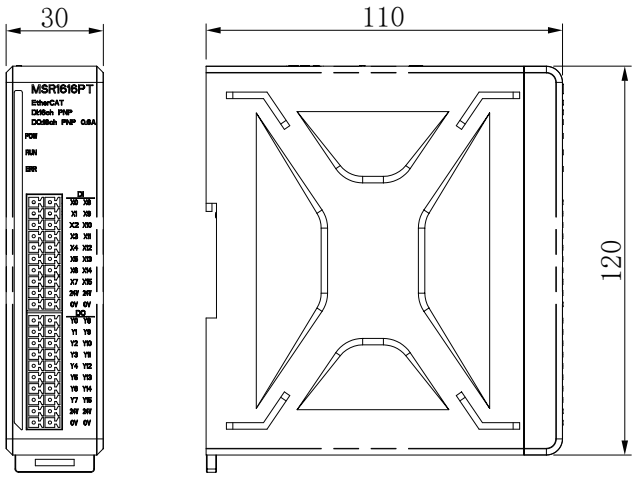
Communication protocol	
EC	EtherCAT
PN	PROFINET
/	Sub-module

Number of input and output channels	
1616	16 Channel digital input 16 Channel digital output
3200	32 Channel digital input
0032	32 Channel digital output

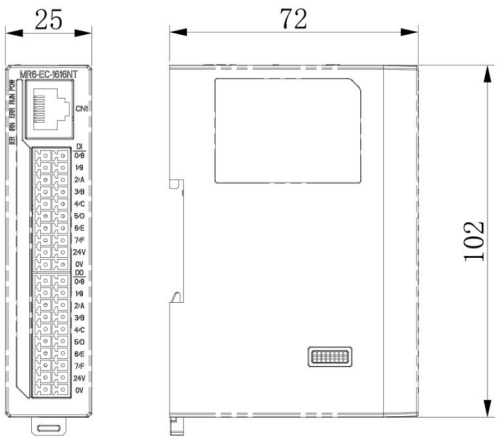
Input/output type	
T	Transistor output
R	Relay

Input/output logic	
N	NPN
P	PNP
/	Multiple types of composite identification

External dimensions



MSR series integrated IO



MR6 series miniaturized integrated IO

Parameter selection table

MR6 model	MR6-EC-1616NT	MR6-EC-1616PT	MR6-EC-3200N/PT		MR6-EC-0032NT	MR6-EC-0032PT
	MR6-PN-1616NT	MR6-PN-1616PT	MR6-PN-3200N/PT		MR6-PN-0032NT	MR6-PN-0032PT
MSR model	MSR-EC-1616NT	MSR-EC-1616PT	MSR-EC-3200NT	MSR-EC-3200PT	MSR-EC-0032NT	MSR-EC-0032PT
Name	16 channel digital input 16 channel digital output NPN type	16 channel digital input 16 channel digital output PNP type	32 channel digital input NPN type (Optocoupler)	32 channel digital input PNP type (Optocoupler)	32 channel digital output NPN type (transistor)	32 channel digital output PNP type (transistor)
General parameters						
System power supply	100mA @24V					
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 2kV					
System power input	Nominal: 24V, allowable range: 20.4~28.8V, Max: 0.5A, Support: Short circuit protection, anti reverse connection protection					
I/O power input	Nominal: 24V, allowable range: 20.4~28.8V, Max: 16A, Support: Anti reverse connection protection					
Wire connection	IO wiring:0.3mm² (22AWG) ~ 1mm²(17AWG)					
	Recommended wire diameter:0.3~1mm², Cold pressure conduit length:10mm					
Installation method	35mm DIN-Rail Mounting					
Size	MSR series: 120mm x 110mm x 30mm / MR6 series: 102mm x 72mm x 25mm					
Weight	MSR series: 180g(including terminals)/ MR6 series: 160g(including terminals)					
Environmental parameters						
Operation temperature	-20~50℃					
Storage temperature	-25~65℃					
Relative humidity	5%~95% No condensation					
Protection grade	IP20					
Input/output characteristics						
Number of channels	16 channel input 16 channel output		32 channel input		32 channel output	
Type	NPN	PNP	NPN	PNP	NPN	PNP
Pilot lamp	32 channel indicator light					
Signal voltage of '0'	12~30V	0~5V	12~30V	0~5V	--	--
Signal voltage of "1"	0~5V	12~30V	0~5V	12~30V	--	--
Input the starting current	Max 5mA				--	--
Input delay	ON to OFF: 1.5ms , OFF to ON : 1.5ms				--	--
Filtering time	Configurable:0~20.0ms, Default configuration:3.0ms				--	--
Equivalent bandwidth	Max 300Hz				Max 3KHz	
Output load capacity	0.5A per output channel		--	--	0.5A per output channel	
Output leakage current	Max: 10uA		--	--	Max: 10uA	
Output delay	ON to OFF: 150us				ON to OFF: 150us	
	OFF to ON : 150us		--	--	OFF to ON : 150us	
Short Circuit Protection	support		--	--	support	
Safety function	Fault holding output/output fault value (channel independent)					

MB6 series plug-in bus I/O module

The MB6 series plug-in I/O module consists of a coupler module, I/O function module, relay power module, common terminal module, and end cover. The I/O function module is further divided into various types and points of function modules such as digital quantity, relay, analog quantity, pulse output, encoder, temperature, communication, etc. Customers can match them according to their on-site needs and support mainstream communication protocols such as EtherCAT, PROFINET, EtherNet/IP, CC Link, CC Link IE Field Basic, Modbus TCP, etc., which are widely applicable to various bus applications.

Thin and light plug-in: plug-in modular design, as thin as 15mm;

Rich types: I/O expansion modules with multiple types and points, including digital quantity, relay, analog q uantity, pulse output, encoder, temperature, communication, etc;

Easy installation: snap on guide rail structure, easy to disassemble and maintain; Screw free terminal block reduces wiring time, improves installation efficiency, and allows for easy expansion. Each coupler can suppor t up to 32 I/O modules;

High speed response: transmission speed can reach 100Mbps (full duplex), communication cycle can be as short as 125us, high-precision distributed clock, precise synchronization (jitter<1us);

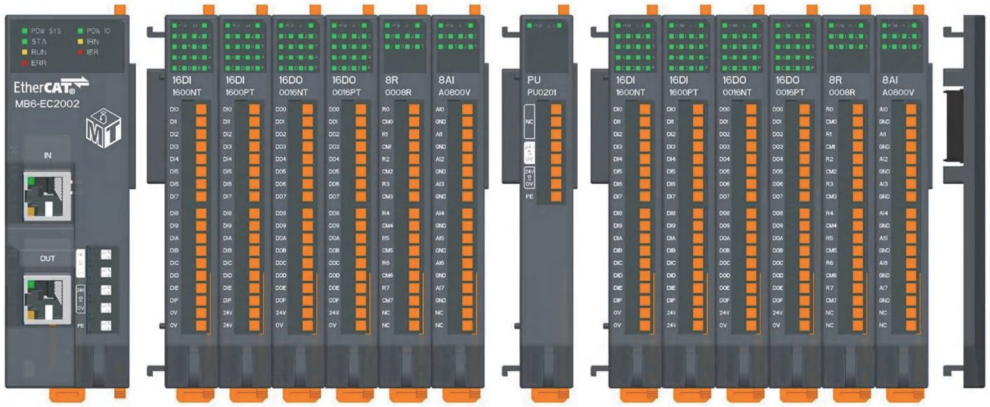
Multiple protections: Power input (coupler, relay power module, etc.) with reverse polarity protection, digi tal output (transistor type), analog output (voltage, current), with short-circuit protection function;

Mainstream protocols: Supports multiple mainstream bus communication protocols, easily interfaces with EtherCAT, PROFINET, EtherNet/IP, CC Link, CC Link IE Field Basic, Modbus TCP and other field buses.

MB6 product module configuration

Application method

The application method of combining couplers, digital quantities, analog quantities, relays, temperature, pulse output, pulse input, power module, common terminal module and other modules can adapt to different types of I/O module combination configurations according to the requirements of the main station access capability, number of stations, I/O points, functional types, etc



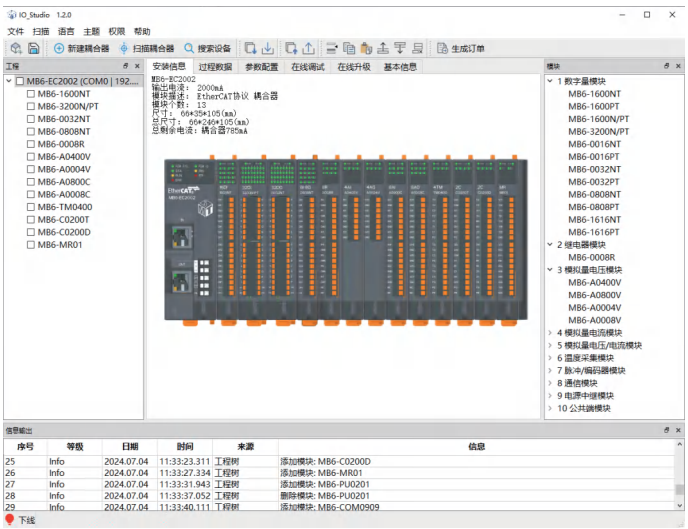
Coupler module | I/O module functional module | relay Power module | I/O module functional module | end cap

Configuration principle

The modules from left to right are coupler module (mandatory), I/O module (mandatory), and relay power module (optional, supplying power to the module on its right side), The total current consumed by all I/O modules (optional) and end caps (included in the coupler) must be less than the total current capacity of the coupler module and the relay power module (optional).The number of I/O modules that the coupler can configure is ≤ 32

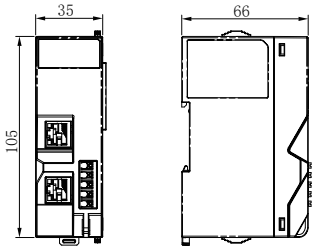
Upper computer configuration software

The IO_Studio dedicated upper computer configuration software enables quick selection (generating order forms), easy implementation of parameter configuration (import/ export), offline debugging, trial operation, firmware upgrade and other operations

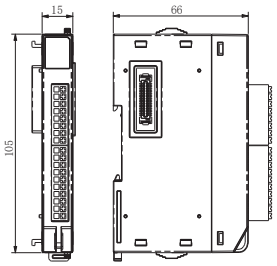


MB6 module size and appearance

Coupler module

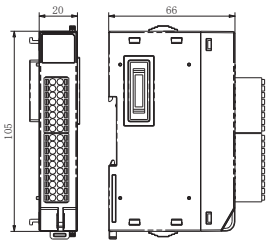


IO module (1)



IO module (2)

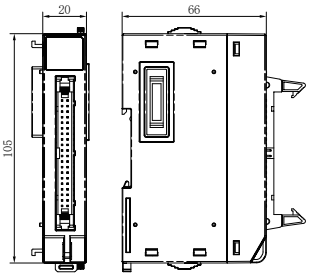
32 channel dedicated



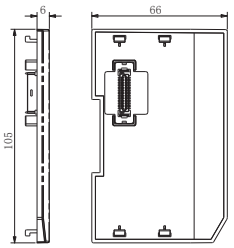
IO module (3)

32 channel cow horn

dedicated



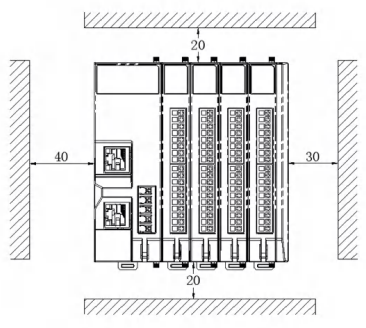
end cap



Installation and disassembly of MB6 product

MB6 overall installation diagram

Please reserve a certain amount of space around, as shown in the image on the right



Installation diagram of the entire module group

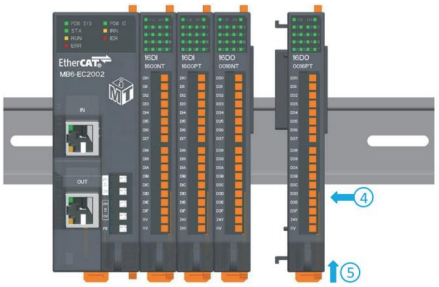
Fix the entire set of installed modules onto the guide rail:

1. Release the guide rail buckles at the bottom of all modules;
2. The entire module is hooked onto the installation guide rail;
3. The entire module is pressed down and fixed onto the installation guide rail;
4. Lock the rail buckle at the bottom of the module.

Add I/O modules

Add a single I/O module to the installed I/O system:

1. Release the rail buckle at the bottom of the module;
2. Hook the module onto the installation guide rail;
3. The module is pressed down and fixed on the installation guide rail;
4. Insert the module by translating it to the left from the installation guide rail;
5. Lock the guide rail buckle at the bottom of the module;
6. Place the end cap properly.



Naming convention for couplers

MB6-EC2002

Module Type	
MB	Plug in IO

serial number	
6	Product series
5	Product series (UL certification)

communication protocol			
EC	EtherCAT	CF	CC-Link IE Field Basic
PN	PROFINET	CL	CC-Link
EI	EtherNET/IP	DN	DeviceNet
MT	Modbus TCP	CP	CANopen

power capacity	
20	2.0A
40	4.0A

Extended parameters	
02	Design serial number

Naming convention for I/O modules

MB6-A0400VC

Module Type	
MB	Plug in IO

serial number	
6	Product series
5	Product series (UL certification)

模块类型	
default	Numerical quantity
A	Analog quantity
P	Pulse output
C	Pulse counter/encoder
TM	Thermocouples, Thermistors
TC	Temperature control
MR	Communication
PU	Relay power supply

Number of input channels	
Numerical quantity	0、2、8、16、32
Analog quantity	0、4、8

Number of output channels	
Numerical quantity	0、2、8、16、32
Analog quantity	0、4、8

Input/output type			
Code	Type	Code	type
N	NPN	V	voltage 0~5V，-5~5V，1~5V，0~10V，-10~10V
P	PNP	C	electric current 0~20mA,4~20mA
T	Transistor	VC	Voltage current type 0~5V，-5~5V，1~5V，0~10V，-10~10V(Default),-20~20mA，0~20mA，4~20mA
R	Relay		
D	Finite difference	/	Multiple types of composite identification

Coupler module(1)

Coupler module EtherCAT PROFINET		
Model	MB6-EC2002	MB6-PN2002
Name	EtherCAT coupler	PROFINET coupler
General parameters		
Current consumption	200mA @5V	200mA @5V
Quarantine	System power supply to IO power supply: isolated	
System power input	Nominal: 24V, allowable range: 18~30V, Max: 2A Support: Short circuit protection, anti reverse connection protection	
I/O power input	Nominal: 24V, allowable range: 18~30V, Max: 3A Support: Anti reverse connection protection	
Wire connection	IO wiring: 0.3mm² (22AWG) ~ 1mm²(17AWG)	
	Recommended wire diameter: 0.3~1mm², Cold pressure conduit length: 10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 35mm	
Weight	200g	
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Functional characteristic parameters		
Network interface	2 RJ45	2 RJ45
Process Data	Input byte: 512 Output bytes: 512	Input byte: 512 Output bytes: 512
Number of supported IO modules	Max: 32	Max: 32
Pilot lamp	Indication of power supply, network, internal bus, etc	
Communication cycle	Minimum cycle of 125us	RT: Minimum cycle 1ms
Connection Rate	10/100Mbps, Adaptive, full duplex	
Maximum bus length	100m	
Diagnosis and alarm	Support	

Coupler module (2)

Coupler module **EtherNet/IP** **Modbus TCP**		
Model	MB6-EI2002	MB6-MT2002
Name	EtherNET/IP coupler	Modbus TCP coupler
General parameters		
Current consumption	200mA @5V	200mA @5V
Quarantine	System power supply to IO power supply: isolated	
System power input	Nominal: 24V, allowable range: 18~30V , Max:2A Support: Short circuit protection, anti reverse connection protection	
I/O power input	Nominal: 24V, allowable range: 18~30V , Max: 3A Support: Anti reverse connection protection	
Wire connection	IO Wiring: 0.3mm² （22AWG） ~ 1mm²(17AWG)	
	Recommended wire diameter: 0.3~1mm², Cold pressure conduit length: 10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 35mm	
Weight	200g	200g
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Functional characteristic parameters		
Network interface	2 RJ45	2 RJ45
Process Data	Input byte: 512 Output byte: 512	Input bytes: 512 Output bytes: 512
Number of supported IO modules	Max 32 个	Max 32 个
	Display message: 10	Number of customer connections: 5
	Implicit message: 5	Watchdog function: Supports
	Maximum number of CIP connections: 10	Support Function Code: 01/02/03/04/05/06/15/16/23
Pilot lamp	Indication of power supply, network, internal bus, etc	
Connection Rate	10/100Mbps , Full duplex, adaptive	
Maximum bus length	100m	
Diagnosis and alarm	Support	

Coupler module(3)

Coupler module **CC-Link IE Field Basic** **CC-Link**		
Model	MB6-CF2002	MB6-CL2002
Name	CC-Link IE Field Basic coupler	CC-Link coupler
General parameters		
Current consumption	200mA @5V	200mA @5V
Quarantine	System power supply to IO power supply: isolated	
System power input	Nominal: 24V, allowable range: 18~30V , Max: 2A, Support: Short circuit protection, anti reverse connection protection	
I/O power input	Nominal: 24V, allowable range: 18~30V, Max:3A, Support: Anti reverse connection protection	
Wire connection	IO wiring:0.3mm² (22AWG) ~ 1mm²(17AWG)	
	Recommended wire diameter:0.3~1mm²,Cold pressed terminal conduit length:10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 35mm	
Weight	200g	200g
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Functional characteristic parameters		
Network interface	2 RJ45	5-position screw terminal
Process Data	RX,RY: 64x4bit RWr,RWw: 32x4words	Input byte: 512 Output byte: 512
Number of supported IO modules	Max 32 个	Max 32 个
Connection Rate	100M	156K/625K/2.5M/5M/10Mbps
Matching Resistor	not have	120 ohms
Pilot lamp	Indication of power supply, network, internal bus, etc	
Maximum bus length	1000m (Max)	1200m (Max)
STATION No	x100 x10 x1(Knob Address Setting)	
Diagnosis and alarm	Support	

Coupler module(4)

Coupler module **DeviceNet** **CANopen**		
Model	MB6-DN2002	MB6-CP2002
Name	DeviceNet coupler	CANopen coupler
General parameters		
Current consumption	200mA @5V	200mA @5V
Quarantine	System power supply to IO power supply: isolated	
System power input	Nominal: 24V, allowable range: 18~30V ,Max : 2A, Support: Short circuit protection, anti reverse connection protection	
I/O power input	Nominal: 24V, allowable range: 18~30V , Max : 3A , Support: Anti reverse connection protection	
Wire connection	IO wiring:0.3mm² (22AWG) ~ 1mm²(17AWG)	
	Recommended wire diameter:0.3~1mm², Cold pressed terminal conduit length: 10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 35mm	
Weight	200g	200g
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Functional characteristic parameters		
Network interface	5-position screw terminal	5-position screw terminal
Process Data	Input bytes:512	Input bytes:512
	Output bytes:512	Output bytes:512
Number of supported IO modules	Max 32 个	Max 32 个
Connection Rate	Optional:125、250、500kbps	10kbps-1Mbps
Pilot lamp	Indication of power supply, network, internal bus, etc	
Site	x100 x10 x1(Knob address setting)	
Maximum bus length	500m (Max)	1000m (Max)
Diagnosis and alarm	Support	

Digital input I/O module

Digital Input Module				 
Model	MB6-1600NT	MB6-1600PT	MB6-1600N/PT	MB6-3200N/PT MB6-3200N/PT(H)
Name	digital input16 channel NPN type (optocoupler)	digital input16 channel PNP type (optocoupler)	16 channel digital input NPN/PNP type (optocoupler)	32 channel digital input NPN/PNP type (optocoupler)

General parameters						
Current consumption	65mA @5V				130mA @5V	
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV					
On site power supply	Nominal: 24V, allowable range: 18~30V					
Wire connection	IO wiring:0.3mm² （22AWG） ~ 1mm² (17AWG)					
	Recommended wire diameter: 0.3~1mm ², cold pressed terminal length: 10mm					
Installation method	35mm DIN-Rail Mounting					
Size	105mm x 66mm x 15mm				105mm x 66mm x 20mm	
Weight	80g				110g	
Environmental parameters						
Operation temperature	-20~50℃					
Storage temperature	-25~65℃					
Relative humidity	5%~95% No condensation					
Protection grade	IP20					
Input characteristics						
Number of channels	16				32	
Type	NPN type	PNP type	NPN type	PNP type	NPN type	PNP type
Pilot lamp	16 channel indicator light				32 channel indicator light	
Signal voltage of '0'	12~30V	0~5V	12~30V	0~5V	12~30V	0~5V
Signal voltage of "1"	0~5V	12~30V	0~5V	12~30V	0~5V	12~30V
ON Current	Max 5mA					
Input delay	ON to OFF: 50us , OFF to ON: 50us					
Equivalent bandwidth	Max 10kHz					
Filtering time	Configurable: 0~20.0ms, default configuration: 3.0ms					
Diagnosis and alarm	Support					

Digital output I/O module

Digital Output Module				
Model	MB6-0016NT	MB6-0016PT	MB6-0032NT MB6-0032NT(H)	MB6-0032PT MB6-0032PT(H)
Name	16 channel digitalOutput NPN type (Transistor)	16 channel digital quantity Output PNP type (Transistor)	32 channel digital output NPN type (transistor)	32 channel digital output PNP type (transistor)
General parameters				
Current consumption	140mA @5V	140mA @5V	280mA @5V	280mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV			
Power input	DC24V, Permitted range: 18~30V Capacity reference actual demand total current			
Wire connection	IO wiring: 0.3mm² (22AWG) ~ 1mm² (17AWG)			
	Recommended wire diameter: 0.3~1mm ², cold pressed terminal length: 10mm			
Installation method	35mm DIN-Rail Mounting			
Size	105mm x 66mm x 15mm		105mm x 66mm x 20mm	
Weight	80g		110g	
Environmental parameters				
Operation temperature	-20~50℃			
Storage temperature	-25~65℃			
Relative humidity	5%~95% No condensation			
Protection grade	IP20			
output characteristic				
Number of channels	16		32	
Type	NPN type	PNP type	NPN type	PNP type
Pilot lamp	16 channel indicator light		32 channel indicator light	
Load capacity	0.8A/per channel, total of 16 channels : Max 8A		0.8A/per channel, total of 32 channels: Max 16A; Bull horn terminal: 0.5A/channel, 32 channels total: Max 10A	
Leakage current	Max 10uA			
Output delay	ON to OFF: 100us , OFF to ON: 100us			
Equivalent bandwidth	Max 5kHz			
Protection function	Short circuit protection			
Safety function	Fault holding output/output fault value (channel independent)			

Digital Input/Output Module

Digital Input / Output Module		
Model	MB6-0808NT	MB6-0808PT
Name	8-channel digital input NPN type (optocoupler)	8-channel digital input PNP type (optocoupler)
	8-channel digital output NPN type (transistor)	8-channel digital output PNP type (transistor)
General parameters		
Current consumption	80mA @5V	80mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV	
Power input	DC24V, Permitted range: 18~30V Capacity reference actual demand total current	
Wire connection	IO wiring: 0.3mm² (22AWG) ~ 1mm² (17AWG)	
	Recommended wire diameter: 0.3~1mm ², cold pressed terminal length: 10mm	
Installation method	35mm rail installation	
Size	105mm x 66mm x 15mm	
Weight	80g	
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
output characteristic		
Number of channels	8	
Type	NPN type	PNP type
Pilot lamp	8-channel indicator light	
Load capacity	0.8A/channel	
Leakage current	Max 10uA	
Output delay	ON to OFF : 100us , OFF to ON : 100us	
Equivalent bandwidth	Max 5kHz	
Protection function	Short circuit protection	
Input characteristics		
Number of channels	8	
Pilot lamp	8-channel indicator light	
Signal voltage of '0'	12~30V	0~5V
Signal voltage of "1"	0~5V	12~30V
ON Current	Max 5mA	
Input delay	ON to OFF : 50us , OFF to ON : 50us	
Equivalent bandwidth	Max 10kHz	
Filtering time	Configurable: 0~20.0ms, default configuration: 3.0ms	
Diagnosis and alarm	support	
Safety function	Fault holding output/output fault value (channel independent)	

Analog input I/O module

analog input					
Model	MB6-A0400V	MB6-A0800V	MB6-A0400C	MB6-A0800C	MB6-A0400VC
Name	4-channel voltage input	8-channel current input	4-channel current input	8-channel current input	4-channel current/ voltage input
General parameters					
Current consumption	110mA @5V	110mA @5V	90mA @5V	90mA @5V	140mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV Non				
	isolated channels between channels				Isolation between channels
On site power supply	not used				
wire connection	IO wiring:0.3mm² （22AWG） ~ 1mm² (17AWG)				
	Recommended wire diameter: 0.3~1mm ², length of cold pressed conduit: 10mm				
Installation method	35mm DIN-Rail Mounting				
Size	105mm x 66mm x 15mm				
Weight	70g	80g	70g	80g	
Environmental parameters					
Operation temperature	-20~50℃				
Storage temperature	-25~65℃				
Relative humidity	5%~95% No condensation				
Protection grade	IP20				
Input characteristics					
Number of channels	4	8	4	8	4
Type	Voltage input		current input		Voltage and current input
Pilot lamp	4-channel indicator light	8-channel indicator light	4-channel indicator light	8-channel indicator light	4-channel indicator light
Input range	0~5V,-5~5V,1~5V,0~10V,-10~10V(Default)		0~20mA,4~20mA(Default)		0~5V，-5~5V，1~5V，0~10V，-10~10(Default)，-20~20mA，0~20mA，4~20mA
Resolution	16bit				
Accuracy	±0.1%@25℃				
Corresponding value of modulus	-10~10V:-32768~32767(Default) -5~5V:-32768~32767 -10~10V:-32000~32000 0~10V:0~27648 0~10V:0~32000 -5~5V:-27648~27648 -5~5V:-32000~32000 0~5V:0~32767 0~5V:0 ~27648 0~5V:0~32000 1~5V:0~32767		4~20mA:0~65535(Default) 0~20mA:0~65535 4~20mA:0~27648 0~20mA:0~27648 4 ~20mA:0~32000 0~20mA:0~32000		-32768~32767(Default) -27648~27648 -32000~32000
Hardware filtering	0.5ms		0.4ms		0.5ms
Sampling rate	250us/4 channels	250us/8 channels	250us/4 channels	250us/8 channels	250us/4channels
Filtering time	Configurable: 0~30.0ms, default configuration: 1.0ms				
Diagnosis and alarm	Support				

Analog output I/O module

analog output				
Model	MB6-A0004V	MB6-A0008V	MB6-A0004C	MB6-A0008C
Name	8-channel current output	8-channel current output	4-channel current output	8-channel current output
General parameters				
Current consumption	230mA @5V	230mA @5V	55mA @5V	55mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolated 3kV, non isolated between channels			
On site power supply	not used			
Wire connection	IO wiring:0.3mm² （22AWG） ~ 1mm² (17AWG)			
	Recommended wire diameter: 0.3~1mm ², length of cold pressed conduit: 10mm			
Installation method	35mm DIN-Rail Mounting			
Size	105mm x 66mm x 15mm			
Weight	70g	80g	70g	80g
Environmental parameters				
Operation temperature	-20~50℃			
Storage temperature	-25~65℃			
Relative humidity	5%~95% No condensation			
Protection grade	IP20			
output characteristic				
Number of channels	4	8	4	8
Type	Voltage Output		current output	
Pilot lamp	4-channel indicator light	8-channel indicator light	4-channel indicator light	8-channel indicator light
Output range	0~5V，-5~5V，1~5V，0~10V，-10~10V(Default))		0~20mA , 4~20mA(Default)	
Resolution	16bit		16bit	
Accuracy	±0.1%@25℃		±0.1%@25℃	
Corresponding value of numerical model	-32768~32767:-10~10V(Default) 0~27648:0~10V -32768~32767:-5~5V -32000~32000:-10~10V 0~32000:0~10V -27648~27648:-5~5V - 32000~32000:-5~5V 0~32767:0~5V 0~27648:0~5V 0~32000:0~5V 0~32767:1~5V		0~65535:4~20mA(Default) 0~65535:0~20mA 0~27648:4~20mA 0~27648:0~20mA 0~32000:4~20mA 0~32000:0~20mA	
Hardware filtering	0.25ms		0.35ms	
Conversion time	250us/4 channels	250us/8 channels	250us/4 channels	250us/8 channels
Load capacity	>2kΩ		50~500Ω	
Short circuit protection	Support load short circuit protection (do not short circuit for a long time)			
Safety function	Fault holding output/output fault value (channel independent)			
Diagnosis and alarm	support			

Pulse input I/O module

pulse input module		
Model	MB6-C0200T	MB6-C0200D
Name	2-channel encoder input NPN, PNP	2-channel differential encoder input
General parameters		
Current consumption	50mA @5V	50mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV	
Power Output (For encoder power supply)	24V/400mA	无
Wire connection	IO wiring: 0.3mm ² (22AWG)~1mm ² (17AWG)	
	Recommended wire diameter: 0.3~1mm ², cold pressed terminal length: 10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 15mm	
Weight	80g	
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Input/output characteristics		
Number of channels	2	
Counting frequency	≤ 1.5Mhz	≤ 10Mhz
Frequency doubling support	x1、x2、x4(Default)	
Measurement function	Pulse counting, position feedback, position grasping, position comparison, Z-phase pulse zeroing, etc	
Signal line length	≤ 2 m	≤ 10 m
Pulse input type	NPN type/PNP type	finite difference
Signal type	Direction+pulse CW+CCW、 Orthogonal pulse	
Power Output voltage	24VDC	/
DI input type	NPN type/PNP type	NPN type
DI response time	250ns	
DO output type	NPN type	
DO output voltage	24VDC	5~24VDC
DO load capacity	100mA per channel	
Pilot lamp	10 indicator lights	
Diagnosis and alarm	Support	

Pulse output I/O module

pulse output	
Model	MB6-P02T/D
Name	2-channel pulse output supports NPN PNP、 finite difference
General parameters	
Current consumption	120mA @5V
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV
Wire connection	IO wiring: 0.3mm² （22AWG） ~ 1mm² (17AWG)
	Recommended wire diameter: 0.3~1mm ², cold pressed conduit length: 10mm
Installation method	35mm DIN-Rail Mounting
Size	105mm x 66mm x 15mm
Weight	80g
Environmental parameters	
Operation temperature	-20~50℃
Storage temperature	-25~65℃
Relative humidity	5%~95% No condensation
Protection grade	IP20
output characteristic	
Number of channels	2
Output type (choose one from three wiring options)	NPN type, PNP type, differential type
Pilot lamp	4-channel indicator light
Signal type	Direction+pulse CW+CCW、 Orthogonal pulse
Duty cycle	50%
Load capacity	100mA per channel
Pulse output frequency	NPN, PNP type ≤ 1MHz, differential interface ≤ 10MHz
Signal line length	NPN, PNP interface ≤ 2 meters, differential interface ≤ 10 meters
Protection function	Short circuit protection
Safety function	Fault holding output/output fault value (channel independent)
Diagnosis and alarm	Support

Temperature acquisition module

Temperature acquisition module		
Model	MB6-TM0400	
Name	4-channel temperature acquisition	
General parameters		
current consumption	150mA @5V	
Isolation and voltage resistance	IO to internal bus: optocoupler isolation 3kV	
Wire connection	IO wiring:0.5mm² （22AWG） ~ 1mm² (17AWG)	
	Recommended wire diameter: 0.5~1mm ², cold pressed conduit length: 10mm	
Installation method	35mm DIN-Rail Mounting	
Size	105mm x 66mm x 15mm	
Weight	80g	
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Input characteristics		
Number of channels	4	
Pilot lamp	4-channel indicator light	
Sensor type	thermocouple	Thermistor (default PT100)
Connection	two-wire system	Two line system, three line system
Measuring range	K-type (-200~1370 ℃), J-type (200~1200 ℃), T-type (-200~400 ℃), E-type (-200~1000 ℃)N-type (-200~1300 ℃),R-type (-50~1700 ℃), S-type (-50~1700 ℃) Type B (250~1800 ℃), Type C (0~2320 ℃)	PT100(-200~850℃) PT200 (-200~600℃) PT500(-200~600℃) PT1000(-200~600℃) Ni120(-70~300℃)
Accuracy	± 0.3% full scale @ 25 ℃	± 0.5% full scale @ 25 ℃
Sensitivity	0.1℃	0.1℃
Resolution	16 bit signed integer (int)	
Conversion time	100ms/channel	100ms/channel
Filtering time	0~60000ms	
Wire breakage detection	Support	Not Supported
Temperature overflow	Support	Support
Temperature overflow	Support	Support

communication module

communication module	
Model	MB6-MR01
Name	1 channel supports RS485, RS422, RS232 communication
General parameters	
current consumption	50mA @5V
Isolation and voltage resistance	Communication interface to internal bus: optocoupler isolation 3kV
Wire connection	IO wiring: 0.3mm² （22AWG） ~ 1mm² (17AWG)
	Recommended wire diameter: 0.3~1mm ², cold pressed terminal conduit length: 10mm
Installation method	35mm rail installation
Size	105mm x 66mm x 15mm
Weight	80g
Environmental parameters	
Operation temperature	-20~50℃
Storage temperature	-25~65℃
Relative humidity	5%~95% No condensation
Protection grade	IP20
Input characteristics	
Number of channels	1
Communication type	RS485 / RS422 / RS232(Choose one out of three)
Communication protoco	Modbus RTU (default)/ASCIII, Freeport Protocol
Baud rate	Optional: 300, 600, 1200, 2400, 4800, 9600 (default), 14400 , 19200, 38400, 57600, 115200, 128000， 230400, 256000, 384000, 500000, custom baud rate （300-500K）
Data bits	8-bit（default)，7-bit
Check bit	None(default)、Odd、Even
Stop bit	1 (default), 2-digit stop position
Data pattern	Optional: Swap byte order, do not swap byte order (default)
Frame Interval	Optional: 1.5 characters, 3.5 characters, 5 characters (default) , 10 characters, 20 characters, 50 characters, 100 characters, 200 characters
Timeout	Can be set: 10-10000200ms (default)
Poll time	Can be set: 10-100004000us (default)
master/slave	Main station mode (default)
Diagnosis and alarm	support

Relay output module

Relay output module	
Model	MB6-0008R
Name	8-channel relay output
General parameters	
current consumption	100mA @5V
Isolation and voltage resistance	IO to internal bus: coil isolation 1.6kV
Wire connection	IO wiring: 0.5mm² （22AWG） ~ 1mm²(17AWG)
	Recommended wire diameter: 0.5~1mm ², cold pressed conduit length:10mm
Installation method	35mm rail installation
Size	105mm x 66mm x 15mm
Weight	70g
Environmental parameters	
Operation temperature	-20~50℃
Storage temperature	-25~65℃
Relative humidity	5%~95% No condensation
Protection grade	IP20
output characteristic	
Number of channels	8
Type	Relay type output
Pilot lamp	8-channel indicator light
Maximum Switching Current	Max 2A/per channel, total of 8 channels: Max 10A
Maximum switching voltage	250V AC / 220V DC
Maximum switching power	62.5VA/60W
Mechanical Endurance	$1x10^{8}$次
Electrical endurance	$1x10^{5}$次 （0.5A@125V AC）
output delay	ON to OFF : 2ms , OFF to ON : 2ms
Equivalent bandwidth	Max 200Hz
Diagnosis and alarm	Support
Safety function	Fault holding output/output fault value (channel independent)

Relay power supply module

Relay power supply module	
Model	MB6-PU0201
Name	2A capacity relay power module
General parameters	
Power input	System power supply: DC24V， Permitted range: 18~30V ， Max : 2A, Support: Short circuit protection, anti reverse connection protection
	IO power supply: DC24V， Allowable range: 18~30V, Max : 3A， Support: Anti reverse connection protection
Wire connection	IO wiring: 0.5mm² （22AWG） ~ 1mm²(17AWG)
	Recommended wire diameter: 0.5~1mm ², cold pressed terminal length: 10mm
Installation method	35mm rail installation
Size	105mm x 66mm x 15mm
Weight	70g
Environmental parameters	
Operation temperature	-20~50℃
storage temperature	-25~65℃
Relative humidity	5%~95% No condensation
Protection grade	IP20
output characteristic	
Output voltage	5V
Output Load	MAX： 2A
pilot lamp	POW indicator light, STA indicator light
Short circuit protection	Support
Diagnosis and alarm	Support

Public end module

Public end module		
Model	MB6-COM0909	MB6-COM1800
Name	Public end module	
General parameters		
Wire connection	IO wiring: 0.5mm² （22AWG） ~ 1mm² (17AWG)	
	Recommended wire diameter: 0.5~1mm ², cold pressed conduit length: 10mm	
Installation method	35mm rail installation	
Size	105mm x 66mm x 15mm	
Weight	60g	
Environmental parameters		
Operation temperature	-20~50℃	
Storage temperature	-25~65℃	
Relative humidity	5%~95% No condensation	
Protection grade	IP20	
Electrical characteristics		
Common terminal	COM1: 9pin COM2: 9pin	COM1: 118 channels
Public end withstand voltage	Nominal: 24V, allowable range: 18~30V	
Terminal current	Max 5A / terminal	
Pilot lamp	Not have	

MB6 series plug-in bus I/O module

Quick selection table

Module Type	Specification and model	current consumption mA@5V	Input Byte count	Byte count output	Notes
Coupler	MB6-EC2002	200	2	2	EtherCAT coupler: 2A power supply capacity supports up to 32 modules
	MB6-PN2002	200	2	2	PROFINET coupler: 2A power supply capacity supports up to 32 modules
	MB6-EI2002	200	2	2	EtherNet/IP coupler: 2A power supply capacity supports up to 32 modules
	MB6-MT2002	200	2	2	Modbus TCP coupler: 2A power supply capacity supports up to 32 modules
	MB6-CF2002	200	2	2	CC Link IE Field Basic coupler: 2A power supply capacity supports up to 32 modules
	MB6-CL2002	200	2	2	CC Link coupler: 2A power supply capacity supports up to 32 modules
	MB6-DN2002	200	2	2	DeviceNet coupler: 2A power supply capacity supports up to 32 modules
	MB6-CP2002	200	2	2	CANopen coupler: 2A power supply capacity supports up to 32 modules
Digital input	MB6-1600N/PT	65	2	0	16 point numerical input: NPN/PNP type optocoupler input
	MB6-1600NT	65	2	0	16 point numerical input: NPN type optocoupler input
	MB6-1600PT	65	2	0	16 point numerical input: PNP type optocoupler input
	MB6-3200N/PT	130	4	0	32 point numerical input: NPN/PNP type optocoupler input
	MB6-3200N/PT(H)	130	4	0	32 point numerical input: NPN/PNP type optocoupler input horn terminal
Digital Output	MB6-0016NT	140	0	2	16 point digital output: NPN transistor output 0.8A per channel
	MB6-0016PT	140	0	2	16 point digital output: PNP transistor outputs 0.8A per channel
	MB6-0032NT	280	0	4	32 point digital output: NPN transistor output 0.8A per channel
	MB6-0032NT(H)	280	0	4	32 point digital output: NPN transistor output 0.5A per channel horn terminal
	MB6-0032PT	280	0	4	32 point digital output: PNP transistor outputs 0.8A per channel
	MB6-0032PT(H)	280	0	4	32 point digital output: PNP transistor output 0.5A per channel horn terminal
Digital Input&Output	MB6-0808NT	80	1	1	8-point digital output: NPN transistor output 0.8A, 8-point digital input per channel: NPN type optocoupler input
	MB6-0808PT	80	1	1	8-point digital output: PNP transistor output 0.8A, 8-point digital input per channel: PNP type optocoupler input
Relay	MB6-0008R	100	0	1	8-point relay output: Contact rated current 2A
Analog input	MB6-A0400V	110	8	0	4-channel voltage input: 0~5V，- 5~5V，1~5V，0~10V，- 10~10V, 16 bit resolution ± 0.1% accuracy
	MB6-A0800V	110	16	0	8-channel voltage input: 0~5V，- 5~5V，1~5V，0~10V，- 10~10V, 16 bit resolution ± 0.1% accuracy
	MB6-A0400C	90	8	0	4-channel current input: 0-20mA, 4-20mA, 16 bit resolution ± 0.1% accuracy
	MB6-A0800C	90	16	0	8-channel current input: 0~20mA, 4-20mA, 16 bit resolution ± 0.1% accuracy
	MB6-A0400VC	140	8	0	4-channel input, each channel can be configured as voltage signal input or current signal input, 16 bit resolution ± 0.1% accuracy input range: 0~5V- 5~5V，1~5V，0~10V，- 10~10V (default)- 20~20mA，0~20mA，4~20mA
Temperature collection	MB6-TM0400	70	16	0	4-channel temperature acquisition: supports thermocouple, thermistor, 2-wire system, 3-wire system
Analog output	MB6-A0004V	230	0	8	4-channel voltage output: 0~5V，- 5~5V，1~5V，0~10V，- 10~10V, 16 bit resolution ± 0.1% accuracy
	MB6-A0008V	230	0	16	8-channel voltage output: 0~5V，- 5~5V，1~5V，0~10V，- 10~10V, 16 bit resolution ± 0.1% accuracy
	MB6-A0004C	55	0	8	4-channel current output: 0-20mA, 4-20mA, 16 bit resolution ± 0.1% accuracy
	MB6-A0008C	55	0	16	8-channel current output: 0-20mA, 4-20mA, 16 bit resolution ± 0.1% accuracy
Inputs	MB6-C0200T	50	48	16	2-channel encoded input: pulse counting, supporting NPN, PNP 1.5Mhz, 2DI (high-speed), 2DO (high-speed)
	MB6-C0200D	50	48	16	2-channel differential encoder input: 10MHz, 2DI (high-speed), 2DO (high-speed)
pulse output	MB6-P02T/D	130	10	20	2-channel pulse output: supports NPN PNP、 Differential interface
Relay power module	MB6-PU0201	60	0	0	Relay power module: 2A capacity DC24V
Communication module	MB6-MR01	50	14	18	1-channel communication module: supports Modbus RTU/ASCII protocol/Freeport protocol to choose one from three options
Public end module	MB6-COM0909	0	0	0	COM1: 9pin，COM2: 9pin
	MB6-COM1800	0	0	0	COM1: 18pin，No COM2

product certificate

CERTIFICATE

Anbotek Product Safety

CERTIFICATE
Of Conformity
EU Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AT18250EC200906

Report No.: 18250EC20090601

Applicant : MT Drive & Control (Shenzhen) Co., Ltd.
Room 501, Building D, Sogood Science Park, Hangcheng Street, Baoan District, Shenzhen
Product : MB Series Sliced I/O Module
Identification : Model No. : MB6-1600NT, MB6-0016NT, MB6-1600PT, MB6-0016PT, MB6-A0008V, MB6-A0800V, MB6-A0008C, MB6-A0800C, MB6-0008R, MB6-TM0400, MB6-C0200D, MB6-P02T/D, MB6-PU0201, MB6-MR01, MB6-COM0909, MBX-YYZZMMNN (X:0~9,Y:A~Z,Z:0~9,M:0~9,N:A~Z)
Trade Mark :
Rating : System Power: 5V/2A
I/O Power: 18~30V/10A
Output: -10V-10V, 0-20MA, 24V/0.6A
Test Standards : EN IEC 61000-6-4: 2019
EN IEC 61000-3-2: 2019/A1:2021
EN 61000-3-3: 2013+A1:2019+A2:2021
EN IEC 61000-6-2: 2019

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity to Article 15 of the Directive.

Sept. 22, 2022
Date

Certified by
KingKong Jin

CE The CE Marking may only be used if all relevant and effective EU Directives are complied with CE

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CERTIFICATE

Anbotek Product Safety

CERTIFICATE
Of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AT18250SC200733-M1

Report No.: 18250SC20073301-M1

Applicant : MT Drive & Control (Shenzhen) Co.,Ltd.
Room 501, Building D, Sogood Science Park, Hangcheng Street, Baoan District, Shenzhen
Product : MB Series Sliced Coupler Module
Identification : Model No. : MB6-EC2001, MB6-PN2001, MB6-EI2001, MB6-MT2001, MB6-CF2001, MB6-CL2001, MB6-DN2001, MB6-CP2001, MBX-YYZZMM (X:0~9,Y:A~Z,Z:0~9,M:0~9)
Trade Mark :
Rating : System Power:18-30V/2A
I/O Power:18-30V/10A
Output: 5V/2A
Test Standards : EN 60335-1:2012+A11:2014+A13:2017
+A1:2019+A14:2019+A2:2019+A15:2021
EN 62233:2008

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply assessment of the series-production of the product. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity specified in Article 15 and Annex IV of the Directive.

Sept. 27, 2022
Date

Certified by
Jeff Zhu

CE The CE Marking may only be used if all relevant and effective EU Directives are complied with CE

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CERTIFICATE

Anbotek Product Safety

CERTIFICATE
Of Conformity
EU Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AT18250EC200905-M1

Report No.: 18250EC20090501-M1

Applicant : MT Drive & Control (Shenzhen) Co., Ltd.
Room 501, Building D, Sogood Science Park, Hangcheng Street, Baoan District, Shenzhen
Product : MB Series Sliced Coupler Module
Identification : Model No. : MB6-EC2001, MB6-PN2001, MB6-EI2001, MB6-MT2001, MB6-CF2001, MB6-CL2001, MB6-DN2001, MB6-CP2001, MBX-YYZZMM (X:0~9,Y:A~Z,Z:0~9,M:0~9)
Trade Mark :
Rating : System Power: 18~30V/2A
I/O Power: 18~30V/10A
Output: 5V/2A
Test Standards : EN IEC 61000-6-4: 2019
EN IEC 61000-3-2: 2019/A1:2021
EN 61000-3-3: 2013+A1:2019+A2:2021
EN IEC 61000-6-2: 2019

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity to Article 15 of the Directive.

Sept. 27, 2022
Date

Certified by
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CE The CE Marking may only be used if all relevant and effective EU Directives are complied with CE

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CERTIFICATE

Anbotek Product Safety

CERTIFICATE
Of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AT18250SC200734

Report No.: 18250SC20073401

Applicant : MT Drive & Control (Shenzhen) Co.,Ltd.
Room 501, Building D, Sogood Science Park, Hangcheng Street, Baoan District, Shenzhen
Product : MB Series Sliced I/O Module
Identification : Model No. : MB6-1600NT, MB6-0016NT, MB6-1600PT, MB6-0016PT, MB6-A0008V, MB6-A0800V, MB6-A0008C, MB6-A0800C, MB6-0008R, MB6-TM0400, MB6-C0200D, MB6-P02T/D, MB6-PU0201, MB6-MR01, MB6-COM0909,MBX-YYZZMMNN (X:0~9,Y:A~Z,Z:0~9,M:0~9,N:A~Z)
Trade Mark :
Rating : System Power: 5V/2A
I/O Power: 18-30V/10A
Output: -10V-10V, 0-20mA, 24V/0.6A
Test Standards : EN 60335-1:2012+A11:2014+A13:2017
+A1:2019+A14:2019+A2:2019+A15:2021
EN 62233:2008

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply assessment of the series-production of the product. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity specified in Article 15 and Annex IV of the Directive.

Sept. 22, 2022
Date

Certified by
Jeff Zhu

CE The CE Marking may only be used if all relevant and effective EU Directives are complied with CE

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