

Product Catalog

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V25.061

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02

HMI/PLC all-in-one

QM3G series | MX3G series | EX3G-80 series | EX3U-80 series

QM3G HMI/PLC all-in-one

Image

QM3G-43FH



QM3G-50FH



QM3G-70FH/HD



QM3G-70KFH



QM3G-100FH



Product specifications

Model	QM3G-43FH	QM3G-50FH	QM3G-70FH/HD	QM3G-70KFH	QM3G-100FH
Dimension	134*102*34mm	151*96*36mm	200*146*36mm	226*163*35.6mm	275*194*35.6mm
Cutout size	120*94mm	143*86mm	192*138mm	217*154mm	262*180mm
Input	24VDC				
Power Consumption	4-6W	5-7W	6-7W	6-7W	6-8W
HMI					
Feature	60K colors resistive touch screen, supports portrait display				
Type	4.3*TFT	5*TFT	7.0*TFT	7.0*TFT	10.1*TFT
Display size	97*56mm	108*65mm	154*87mm	154*87mm	222*125mm
Resolution(pixels)	480*272	800*480	800*480	800*480	1024*600
RAM	64MB (Please inquire if requires storing historical data)				
ROM	NOR Flash 8MB		NOR Flash 16MB		
CPU	32bit CPU 408MHz				
COM ports	Type-C HMI download port (can download PLC program through the USB penetrating function), RS232 port			Type-B HMI download port (can download PLC program through the USB penetrating function), RS232	
Software	Coolmay mView HMI Programming Software				
PLC					
I/O level	-Input: Passive NPN, public terminal isolated -Transistor output: Low level NPN, COM connect to negative -Relay output: Normally open dry contact				
DO type and load	-MT: 2A/point, 4A/4 point COM, 5A/12 point COM -MR: 2A/point, 5A/12 point COM		--MT: 2A/point, 4A/4 points COM; MT: 0.5A/point, 0.8A/4 points COM, 1.6A/8 points COM -MR: 2A/point, 4A/4 points COM, 5A/12 points COM.		
High-speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10KHz				
High-speed pulse(Only for MT models)	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz. High-speed counting + high-speed pulse < 480KHz				
COM port	1x TYPE-C, 1x RS232, 1x RS485			1x mini USB, 1x RS232, 1x RS485	
Software	Compatible with GX Developer8.86 and GX WORKS 2				

Detailed info. refer to: "Coolmay QM3G-FH All-in-One User Manual", "Coolmay CX3G/FX3GC PLC Programming Manual", "Coolmay TK HMI User Manual"

Optional functions

Product specifications

Model	I/O	Output	AI/AO	AI type	AO type	HMI COM port	PLC COM port
QM3G-43FH	12/12	MT	2/1 or 4/2(Maximum 3AI if thermocou- ple inputs)	-Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V -0~20mA/ 4~20mA -Mixed	-0~10V / 0~5V -0~20mA/ 4~20mA Mixed		-2x RS485 (one of which is changed from the default RS232 port) -1x WIFI (occupy default RS232 port)
QM3G-43FH	12/12	MR					-2x RS485 (one of which is changed from the default RS232 port) -1x WIFI (occupy default RS232 port) -1x Ethernet port
QM3G-50FH	12/12	MT					
QM3G-50FH	12/12	MR					
QM3G-70FH	12/12	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8	-Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V/ -5V~5V/ -10V~10V -0~20mA/ 4~20mA Mixed	-0~10V / 0~5V/ -5~5V/ -10~10V (2AO for 1 minus voltage) -0~20mA/ 4~20mA -Mixed/	-1x RS485 (occupy default RS232 port)	-2 RS485 COM ports (one of which is changed from the default RS232 port) -1 WIFI (occupy default RS232 port) -1x CAN (2.0A/B) port -1x Ethernet port
QM3G-70FH	12/12	MR					
QM3G-70FH	24/20	MT					
QM3G-70FH	24/16	MR					
QM3G-70KFH	20/18	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8				
QM3G-70KFH	20/18	MR					
QM3G-70KFH	30/30	MT	2/1 or 4/2 or 5/2				
QM3G-70KFH	30/26	MR					
QM3G-100FH	30/30	MT					
QM3G-100FH	30/26	MR					
QM3G-100FH	12/12	MR	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8				
QM3G-100FH	20/18	MT					
QM3G-100FH	20/18	MR					
QM3G-100FH	24/20	MT					
QM3G-100FH	24/20	MR					

MX3G HMI/PLC all-in-one

Image

MX3G-43C



MX3G-70C



MX3G-50C



Product specifications

Model		MX3G-43C-22M	MX3G-70C-48M	MX3G-50C-32M
Dimension		134*102*34mm	210*146*36mm	151*96*36mm
Cutout size		120*94mm	192*138mm	143*86mm
Power Consumption		4-6W	6-7W	5-7W
HMI				
Display		60K colors resistive touch screen, supports portrait display		
Type		4.3"TFT	7.0" TFT	5.0"TFT
Display size		97*56mm	154*87mm	108*65mm
Resolution(pixels)		480*272	800*480	800*480
RAM		64MB		
ROM		NOR Flash 8MB	NOR Flash 16MB	
CPU		32bit CPU 408MHz		
COM ports		Type-C HMI download port (can download PLC program through the USB penetrating function), RS232 port		
Software		TPWorks HMI programming software		
PLC				
I/O		Max 12DI/10DO	Max 24DI/24DO	16DI/16DO
I/O level		--Fixed MT outputs: Y0, Y1 at 43C and Y0-Y13 at 70C, DC24V active NPN outputs -Input: Passive NPN, public terminal isolated -Transistor output: Low level NPN, COM connect to negative Relay output: Normally open dry contact		Fixed MT: Low level NPN, COM negative; Input: passive NPN, common isolated
DO type and load		-Transistor MT/Hybrid Output MRT -The first two Y0-Y1 circuits are fixed to MT, with an output load of 0.1A/point; -MT: 0.5A/point, 0.8A/4 point COM; MR: 2A/point, 4A/4 point COM.	-Transistor MT/Hybrid Output MRT -The first 12 Y0-Y13 circuits are fixed to MT, with an output load of 0.1A/point; -MT: 0.5A/point, 0.8A/4 point COM, 1.6A/8 point COM; MR: 2A/point, 4A/4 point COM, 5A/8 point COM.	Transistor MT output, load 0.2A/point
High-speed counting		Conventional 2-channel single-phase 60KHz+4-channel 10KHz or 1-channel AB (Z) phase 30KHz+1-channel AB (Z) phase 5KHz		
High-speed pulse		MT outputs conventional 4 channels, with Y0-Y1 at 100KHz and Y2-Y3 at 10KHz; The total transmission of high-speed counting and high-speed pulses cannot exceed 300KHz	Conventional 4 channels, Y0-Y1 is 100KHz, Y2-Y3 is 50KHz; The total transmission of high-speed counting and high-speed pulses cannot exceed 300KHz	The conventional 4-way Y0-Y1 is 100KHz, and Y2-Y3 is 10KHz;
Analog	Input	2 voltage channels 0-10V+2 current channels 0-20MA+1 NTC10K		Equipped with 2 voltage channels 0-10V+1 current channel 0-20mA
	Output	1 channel voltage 0-10V+1 channel current 0-20MA output	2 channels of current 0-20MA output	/
	AI/AO	5AD/2DA		3AD
COM port		Equipped with two PLC programming ports (1 TYPE-C, faster download speed; 1 RS232 programming port), 1RS485		
Software		Compatible with PLC programming software GX Developer8.86Q and GX Works2		
Customized (200pcs)		① HMI needs to store historical data and can be customized with ferroelectric materials ② PLC can customize 4-channel EKSTJ thermocouple (supports negative temperature) (Note: Thermocouples cannot coexist with their own current and voltage)	① HMI needs to store historical data and can be customized with ferroelectric materials ② HMI can be customized with RS485 (cannot coexist with built-in RS232) ③ PLC can customize 4-channel EKSTJ thermocouple (supports negative temperature)	① HMI needs to store historical data and can be customized with ferroelectric materials

Detailed info. refer to: "Coolmay MX3G-C Series All-in-One Programming Manual" "MX3G-C Series All-in-One User Manual"
"Coolmay TP Series Touch Screen User Manual"

EX3G-80 series

Image

EX3G-8043H



EX3G-8050H



EX3G-8070H/HD



EX3G-8100H



Product specifications

Model		EX3G-8043H	EX3G-8050H	EX3G-8070H/HD	EX3G-8100H
Dimension		134*102*34mm	151*96*36mm	200*146*36mm	275*194*35.6mm
Cutout size		120*94mm	143*86mm	192*138mm	262*180mm
Power Consumption		4-6W	5-7W	6-7W	6-8W
HMI					
Features		16.77 million true color resistive touch screen; all sizes can be displayed vertically			
Display type		4.3" TFT	5" TFT	7.0" TFT	10.1" TFT
Display size		97*56mm	108*65mm	154*87mm	222*125mm
Resolution (pixels)		480*272	800*480	800*480/1024*600	1024*600
RAM		128MB		128MB/256MB	256MB
ROM		NAND Flash 128MB		NAND Flash 128MB/256MB	NAND Flash 256MB
CPU		Dual core 1GHZ			
Operation system		Based on Linux system			
COM Port	USB	Type-C (HMI download port); 1 USB 2.0 port			Type-B; 1 USB 2.0 port
	Other	Comes with 1 RS232			Comes with 1 RS232 or optional 1 RS485
	Ethernet	/	Optional 1 network port (cannot coexist with PLC network port)		
programming software		Coolmay Vcool			
PLC					
I/O		Max 12DI/12DO		Max 24DI/20DO (16MR, Y20-Y23 are fixed as MT)	Up to 24DI/20DO (16 MRs, Y20-Y23 fixed as MT)
I/O level		Input: Passive NPN, common terminal isolated; Output MT: low level NPN, COM connected to negative; Output MR: Normally open dry contact;			
DO type and load		Relay MR/MOS tube MOS tube: 2A/point, 4A/4-point COM, 5A/12-point COM; MR: 2A/point, 5A/12 points COM.		Relay MR/Transistor MT (Y0-Y3 are MOS tubes)/Mixed output MRT MOS tube: 2A/point, 4A/4 points COM; MT: 0.5A/point, 0.8A/4 points COM, 1.6A/8 points COM; MR: 2A/point, 4A/4 points COM, 5A/8 points COM, 5A/12 o'clock COM.	
High-speed counting		Conventional 6 channels single phase 60KHz or 2 channels AB (Z) phase 30KHz + 1 channel AB phase 5KHz			
High-speed pulse output		Conventional 8 channels: Y0-Y3 is 100KHz, Y4-Y7 is 10KHz; high-speed counting + high-speed pulse total transmission cannot exceed 480KHz			
Analog	Input type	E K S T J_type negative temperature thermocouple/PT100/PT1000/NTC10K /NTC50K/NTC100K/0-10V/0-5V/0-20mA/4-20mA or mixed type, etc.		EKSTJ type thermocouple (can support negative temperature E K S T J)/PT100/PT1000/ NTC10K/NTC50K/NTC100K/0-10V/0-5V/-5V/-5V/-10V/-10V/0-20mA/4-20mA or mixed type and other special specifications	
	Output type	0-10V/0-5V/0-20mA/4-20mA or mixed type optional		0-10V/ 0-5V/0-20mA/4-20mA/-5-5V/-10-10V (1 negative voltage accounts for 2 DA)	
	Points	Max 4AI/2AO		Max 12AI/8AO[Up to 8 isolated analog inputs (AD5-AD12) can be selected]	Max 16AI/8AO[Up to 8 isolated analog inputs (AD5-AD12) can be selected]
Weighing		/		Optional installation of 2 or 4 weighing channels (cannot coexist with analog input)	
Communication Interface	Default	Comes with 1 TYPE-C programming port; default 1 RS232+1 RS485			Comes with 1 Mini USB programming port; Default: 1 RS232+1 RS485
	Optional	Optional 1 RS485(Specially changed from the default RS232)			Optional 1 RS485 (cannot coexist with screen optional RS485 and PLC default RS232)
	Other	Optional CAN port (2.0A/B) and network port (cannot coexist with the touch screen network port); Optional WIFI (will occupy the default RS232 port)			
Programming software		Compatible with PLC programming software GX Developer8.86Q and GX Works2			

Detailed info. refer to: "Coolmay QM3G-FH All-in-One User Manual", "Coolmay CX3G/FX3GC PLC Programming Manual", "Coolmay TK HMI User Manual"

EX3U-80 series

Image

EX3U-8043H



EX3U-8050H



EX3U-8070H/HD



EX3U-8100H



Product specifications

Model		EX3U-8043H	EX3U-8050H	EX3U-8070H/HD	EX3U-8100H
Dimension		134*102*34mm	151*96*36mm	200*146*36mm	275*194*35.6mm
Hole Size		120*94mm	143*86mm	192*138mm	262*180mm
Power consumption		4-6W	5-7W	6-7W	6-8W
Power supply		DC24V			
Touch screen part					
characteristic		16.77 million true color resistive touch screen; all sizes can be displayed vertically			
Display Type		4.3"TFT	5"TFT	7.0"TFT	10.1"TFT
Display size		97*56mm	108*65mm	154*87mm	222*125mm
Resolution		480*272	800*480	800*480/1024*600	1024*600
Running Memory		128MB		128MB/256MB	
Storage Memory		NAND Flash 128MB		NAND Flash 128MB/256MB	
CPU		Dual core 1GHZ			
operating system		Linux-based			
COM Port	USB	Type-C (HMI download port); 1 USB 2.0 port			Type-B; 1个USB 2.0 port
	Other	Comes with 1 RS232			Comes with 1 RS232 or optional 1 RS485
	Network port	/	Optional 1 network port (cannot coexist with PLC network port)		
programming software		Coolmay Vcool			
PLC part					
I/O		Max 12DI/12DO		Up to 24 DI/ 20 DO (MR 16 , Y20 -Y23 fixed as MT)	Up to 24DI/ 20 DO (MR 16 , Y20 -Y23 fixed as MT)
I/O level		Input: Passive NPN, common terminal isolation ; Output MT: Low level NPN, COM connected to negative; Output MR: Normally open dry contact;			
DO type and load		Relay MR/transistor MT MT: 0.5A/point, 2A/4-point COM, 4A/12-point COM; MR: 2A/point, 8A/12 point COM.		Relay MR/transistor MT/hybrid output MRT MT: 0.5A/point, 2A/4-point COM, 4A/8-point COM; MR: 2A/point, 8A/4 point COM, 8A/12 point COM.	
High-speed counting		Conventional 4-channel single-phase 200KHz or 4-channel AB phase 200KHz			
High-speed pulse output		MT output: Conventional 8-channel Y0-Y7 at 200KHz			
Analog	Input type	Comes with 2 voltage 0-10V + 2 current 0-20MA		Comes with 2 voltage 0-10V + 2 current 0-20MA (users can wire and use according to their needs)	
	Output type	Comes with 1 voltage 0-10V + 1 current 0-20MA		Comes with 2 current 0-20MA output	
	Points	Up to 4 inputs and 2 outputs			
Communication Interface	Default	Comes with 1 TYPE-C programming port; default 1 RS232+1 RS485			Comes with 1 Mini USB programming port; Default: 1 RS232+1 RS485
	Optional	Optional 1 RS485(Specially changed from the default RS232)		Optional 1 RS 485 (cannot coexist with the RS485 selected by the screen and the RS232 defaulted by the PLC)	Optional 1 RS 485 (specially changed from the default RS 232)
	Other	/	Optional network port	Optional CAN port (2.0A/B), network port (cannot coexist with touch screen network port) ; Optional WIFI (will occupy the touch screen download port)	
Programming software		Coolmay Vtool PRO			
Common model specifications: EX3U - 8043H/80 50 H -24MR/24MT (-4AD2DA-485P/232H) EX3U - 80 70 H/HD -24MR /24MT (- 4 AD 2 DA-485P/232H) ; EX3U - 80 70 H/HD - 44 M T / 4 4MRT(- 4 AD 2 DA-485P/232H) EX3U - 8 100 H -24MR / 44MT/44MRT (- 4 AD 2 DA-485P/232H) ; 485P/232P means 485/232 is selected on PLC; 485H/232H means 485/232 is selected on touch screen					
For detailed information, please refer to: "Coolmay EX3U Series All-in-One Machine Programming Manual" EX3U Series All-in-One User Manual 《 Coolmay T K80 Series Touch Screen User Manual》					



08

PLC

L02 series | L02S series | L01 series | L01S series | M300 series | CX3G series

L02 PLC Host

Image

L02M32T



L02M32R



L02M24T



L02M24R



Product specifications

Model		L02M32T	L02M32R	L02M24T	L02M24R
Programming language		Ladder diagram (LD) / instruction list / Sequential function chart (SFC)			
Program capacity		32k steps			
Storage capacity	Date (D)	[D0~D127] 128points General / [D128~D7999] 7872points Retentive / [D8000~D8511]512points Special			
	Expansion(R)	[R0~R22999] 23000points. Support power-down retention / [R23000~R23999].1000points Internal use			
Expansion model		Max limit of 31 units: max 12 analog input/output respectively			
Max I/O		FX3U mode: 512 points; FX3G mode: 256 points (the sum of input and output points)			
CPU Digital I/O		16DI / 16DO		12DI/ 12DO	
CPU analog I/O		/		4AI/4AO	
AI Type		/		2*0-10V, 2*0-20mA(4-20mA)	
AO Type		/		2*0-10V, 2*0-20mA(4-20mA)	
Timer T		[T0~T199] 200points 100ms General / [T250~T255] 6points 100ms Retentive [T246~T249] 4points 1ms cumulative Retentive / [T256~T319] 64points 1ms General [T200~T245] 46points 10ms General			
		※The 10ms timer is affected by the scan period. If the scan period is 12ms,the timer becomes 12ms and executes once.			
16-bit counter C		[CO~C15] 16points General			
32-bit counter C		[C200~C219] 20points General		[C220~C234] 15points Retentive	
		[C235~C245 Single phase single counting][C246~C250 single phase double counting]			
		[C251~C255 Two-phase double counting]			
High-speed pulse		4-channels 150KHz+4-channels 50KHz			
High-speed counter		Single phase 6 channels 60KHz, or AB(Z) phase 2 channels 60KHz+AB phase 1 channel 10KHz			
Do type		L02M32T/L02M24T: Transistor output, load maximum 500mA, low level NPN, COM connected to negative			
		L02M32R/L02M24R: Relay output, load maximum 2A, dry contact, COM can be connected to positive or negative			
Default COM		Type-C, RS-232, RS-485*2, Ethernet, CAN			
Protocol		Programming port Modbus RTU, Modbus TCP, Modbus UDP, freeport protocol, CAN, Ethernet/IP, BD board			
Data backup function No battery storage	Program	Flash ROM			
	Retentive area	MRAM has no write limit			
Calendar(RTC)		Commercially available batteries CR1620(optional)			
Self-diagnosis		CPU abnormalities, internal memory problems, etc			
Rated input voltage		24VDC(±10%)			
Software		Compatible with GX WORKS 2			

Detailed info. refer to Coolmay L02 Series PLC Programming Manual L02 Series PLC Controller User Manual

L02 PLC modules

Image

L02-60P



L02-8EX



L02-16EX



L02-32EX



L02-8EYT, L02-8EYR



L02-16EYT
L02-16EYR
L02-16EYP



L02-32EYT



L02-16ET
L02-16ER



L02-32ET



Product specifications

Sort	Model	Description
Power supply Module	L02-60P	Input: 100-240VAC, 50/60Hz AC power input. Output (for L02 series products): 24VDC/2A, 36W Output (for other products): 24VDC/2A, 12W
Digital input Module	L02-8EX	DC24V, 6mA, 8 points input, push-type terminal
	L02-16EX	DC24V, 6mA, 16 points input, push-type terminal
	L02-32EX	DC24V, 6mA, 32 points input, horn block terminal
Digital output Module	L02-8EYT	30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-8EYR	Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-16EYT	30VDC, 2A/point; 2A/4point COM, 16 points transistor output, push-type terminal
	L02-16EYR	Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 16 points relay output, push-type terminal
	L02-16EYP	220VAC/30VDC, 0.5A/point, 16DO, transistor and PNP outputs, push-type terminals
	L02-32EYT	30VDC, 2A/point; 2A/4point COM, 32 points transistor output, horn block terminal
Digital input output mixed Module	L02-16ET	DC24V, 6mA, 8 points input; 30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-16ER	DC24V, 6mA, 8 points input; Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-32ET	DC24V, 6mA, 16 points input; 30VDC, 2A/point; 2A/4point COM, 16 points transistor output, horn block terminal

L02 PLC modules

Image

L02-16ET
L02-16ER



L02-32ET



L02-4DA



L02-4AD, L02-4AD2DA,
L02-4RTD, L02-4TC, L02-4NTC



L02-2LC
L02-16EYR



L02-EIP



Product specifications

Sort	Model	Description
Digital input output mixed Module	L02-16ET	DC24V, 6mA, 8 points input; 30VDC, 2A/point; 2A/4point COM, 8 points transistor output, push-type terminal
	L02-16ER	DC24V, 6mA, 8 points input; Below AC220V / Below DC30V, 2A/point, 4A/4point COM, 8 points relay output, push-type terminal
	L02-32ET	DC24V, 6mA, 16 points input; 30VDC, 2A/point; 2A/4point COM, 16 points transistor output, horn block terminal
Analog output Module	L02-4DA	4-channel analog signal output 16-bit resolution 0~5V, 0~10V, 4~20mA
Analog input Module	L02-4AD	channel analog signal input 16-bit resolution 0~10V, 0~5V, 0~20mA, -20~20mA
Analog input output mixed Module	L02-4AD2DA	4-channel analog signal input; 16-bit resolution 0~10V, 0~5V, 4~20mA, 0~20mA 2-channel analog signal output; 16-bit resolution 0~5V, 0~10V, 0~20mA
Temperature Module	L02-4RTD	4-channel 2-wire or 3-wire RTD temperature sensing Sensor type: Pt100; Resolution: 0.1°C/0.1°F (16 bit converter)
	L02-4TC	4-channel thermocouple temperature sensing Sensor type: J, K, S, T, E; Resolution: 0.1°C/0.1°F (16 bit converter)
	L02-4NTC	4-channel thermistor temperature sensing Sensor type: NTC10K (Default B value 3435); Resolution: 0.1°C/0.1°F (16 bit converter)
Weighing/Load cell Module	L02-2LC	2-channel 4-wire load cell Characteristic values: 1, 2, 4, 6, 20, 40, 80 mV/V Accuracy error value: one ten thousandth (1/10000) ADC resolution: 23 bits
Ethernet/IP Module	L02-EIP	Built-in two Ethernet interfaces, support switch function Support Ethernet/IP protocol, remotely expand I/O available.

L02S series

Image

L02S-24M



L02S-32M



Product specifications

Model	L02S-24M	L02S-32M
Dimensions	75*88mm	75*88mm
Installation dimensions	Installation of 35MM standard guide rail	
Installation	DC24V(-15%~20%)	
Operating/Storage Environment	Operation: Temperature -20 °C~55 °C (no condensation), humidity 5~95% RH (no condensation) Storage: Temperature -25 °C~70 °C, humidity 5~95% RH (no condensation)	
Insulation resistance	1.2W	1.2W
No-load power consumption	MT/2W MR/4W	MT/2W MR/4W
DI/DO points	12DI12DO	16DI16DO
DI level	Passive NPN or PNP, with common terminal isolation; Input voltage: 24VDC $\pm$ 10%	
DO level	Output MT: Low level NPN, COM connected to negative; Output MR: normally open dry contact	
DO type and load	Transistor MT: 0.5A/point, 2A/4-point COM; Voltage specification: 12VDC-36VDC. Relay MR: 2A/point, 4A/4 point COM	
High speed counting enter	Single phase 3-channel 200KHz+3-channel 10KHz or dual phase 2-channel 200KHz	
high speed pulse output	Host MT output: Typically up to 8 Y0-Y7 channels at 200KHz; Additionally, 2 axis control modules (8 channels at 200KHz) can be expanded	
Analog points	4AI2AO	/
Analog input type	Comes with 2 channels of voltage 0-10V+2 channels of current 0-20mA	/
Analog output type	Voltage 0-10V or current 0-20mA; Free wiring for use.	/
Program capacity	32K	
Ethernet	Support MODBUS TCP, Ether Net/IP (under development)	
CAN communication	Support 1-channel CANOPEN	
programming language	LD, SFC, supporting FB function (LD)	
Serial port	The total number of communication ports is 3. The default is 2 RS485 and 1 RS232.	
Programming port	1 Type-C USB port	
programming software	Vtool PRO	

Common model specifications: L02S-24MT、L02S-24MR、L02S-32MT、L02S-32MR

For detailed information, please refer to the "Coolmay L02S Series PLC Programming Manual" and the "Coolmay L02S Series PLC User Manual"

L01 PLC

Image

L01-24M



L01-40M



Product specifications

Model	L01-24M	L01-40M
Dimension	93*88*75mm	143*88*75mm
Cutout size	74*80mm	124*80mm
Installation	Fixed hole installation and 35MM standard rail installation	
I/O	14 DI 10 DO (MR up to 8, Y0/Y1 fixed MT)	24DI 16DO
I/O level	Output MT: low level NPN, COM connected to negative; Output MR: normally open dry contact; Input: Passive NPN, common isolated	
DO type and load	Relay MR/Transistor MT/Mixed output MRT The first 2 channels of Y0/Y1 of 24M are fixed as MT, and the output load is 0.1A/point; Other transistors MT output load 0.5A/point, 0.8A/4 points COM; Relay output load 2A/point, 4A/4 points COM. RTU protocol	
High speed counting	Conventional 2-channels single-phase 60KHz+4-way 10KHz or 1 channel AB(Z) phase 30KHz +1 channel AB(Z) phase 5KHz	
High speed pulse	Conventional 2-channels Y0-Y1 is 100KHz, Y2-Y3 is 10KHz; High-speed counting + high-speed pulse total can not exceed 300KHz	
Communication port	Comes with two PLC programming ports (1 type-C port, faster download speed; 1 RS232 programming port, the interface terminal is an 8-hole mouse head female socket)	
	The default is 2 RS485; or 1 RS232 and 1 RS485 can be customized in batches	
Software	Compatible with GX Works2/GX Developer8.86Q	

Common Model Specifications: L01-24MT/MRT-485/485

L01-40MT/MRT-485/485

Detailed info. refer to Coolmay L01 Series PLC Programming Manual Coolmay L01 Series PLC User Manual

L01S series

Image

L01S-16M | L01S-24M



L01S-32M | L01S-40M



L01S-48M | L01S-60M



Product specifications

Model	L01S-16M	L01S-24M	L01S-32M	L01S-40M	L01S-48M	L01S-64M	
External dimensions	93 * 88 * 75mm		143 * 88 * 75 mm		210 * 88 * 75 mm		
Installation size	74 * 80 mm		124 * 80 mm		194 * 80 mm		
Installation method	Installation of fixed hole (diameter 4.5mm) and 35mm standard guide rail						
supply voltage	AC220V(-15%~20%)						
Grounding	The wire diameter specified in the grounding terminal wiring instructions shall not be less than the wire diameter of the power line (if multiple PLCs are used simultaneously, please make sure to ground them at a single point)						
Operating/Storage Environment	Operation: Temperature 0 °C~55 °C, humidity 5~95%, pollution level 2 Storage: Temperature -25 °C~70 °C, humidity 5~95%						
Insulation resistance	Above 5 M Ω						
No-load power consumption	1.2W						
Full load power consumption	MT/2.4W; MR/2.88W		MT/2.8W; MR/3.5W		MT/3.1W MR/3.9W	MT/3.8W MR/4.8W	
Digital points	8DA8DO (Y0/Y1 fixed MT)	14DA10DO (Y0/Y1 fixed MT)	16DA16DO(Maximum of 14 MR, Y0/Y1 fixed MT)	24DA16DO (MT or MR, no MRT)	24DA24DO (MT or MR, no MRT)	32DA32DO (MT or MR, no MRT)	
DI level	Passive NPN or PNP, common terminal isolation Input voltage: 24VDC ± 10%						
DO level	Output MT: Low level NPN, COM connected to negative Output MR: normally open dry contact;						
Digital output type and load	Transistor MT: 0.5A/point, 2A/4-point COM; Voltage specification: 12VDC-36VDC Relay output load 2A/point, 4A/4 point COM; Can be connected to DC24V or AC220V						
High speed counting enter	Single phase 6-way 100KHz or AB phase 2-channel 100KHz						
high speed pulse output	MT output: Conventional 4-channel Y0-Y3 is 100KHz (48MT/64MT: 8-channel Y0-Y7 is 100KHz), 16/24MRT output: 2-channel Y0-Y1 is 100KHz						
Analog	Points	MAX 4AD2DA	/	MAX 4AD2DA	/	MAX 8AD8DA (6 optional channels)	/
	input	EKST type thermocouple (supports negative temperature)/PT100/ NTC10K/NTC100K/ 0-10V/0-20mA/ 4-20mA optional	/	EKST type thermocouple (supports negative temperature)/PT100/ NTC10K/NTC100K/ 0-10V/0-20mA/ 4-20mA optional	/	4-channel isolated analog: EKST thermocouple (supporting negative tem- perature)/PT100/0-10V/ 0-20mA/4-20mA 4- channel non isolated analog: NTC10K/ NTC100K optional	/
	output	0-10V/4-20mA optional		0-10V/4-20mA optional		0-10V/0-5V/0-20mA/ 4-20mA/-5~5V/ -10~10V optional	
COM. port	Comes with two PLC programming ports (1 Type-C USB port; 1 RS232 programming port, interface terminal is an 8-hole female mouse head socket)						
	The total number of communication ports is 3. Default is 1 round mouth RS232+2 RS485						
Programming software	VTool Pro						

Common model specifications: L01S-16MT/MRT-4AD2DA; L01S-24MT/MRT-485/485

L01S-32MT/MRT-4AD2DA; L01S-40MT/MR-485/485

L01S-48MT/MR-8AD2DA; L01S-64MT/MR-4AD

Detailed information: "Coolmay L01S Series PLC Programming Manual" and "L01S Series PLC User Manual"

M300 series

Image



Product specifications

Model	M301	M302
Dimension	93*88*75mm	100*83*40mm
Installation dimensions	Installation of 35MM standard guide rail	
supply voltage	DC24V(-15%~20%)	
Grounding	The wire diameter specified in the grounding terminal wiring instructions shall not be less than the wire diameter of the power line (if multiple PLCs are used simultaneously, please make sure to ground them at a single point)	
Operating/Storage Environment	Operation: Temperature -20 °C~55 °C (no condensation), humidity 5~95% RH (no condensation) Storage: Temperature -25 °C~70 °C, humidity 5~95% RH (no condensation)	
No load power consumption	1.2W	1.2W
Full load power consumption	2.4W	2.8W
Weight (g)	101g	117g
Digital points	12DI12DO	12DI12DO
Digital input level	Passive NPN or PNP, with common terminal isolation; Input voltage: 24VDC $\pm$ 10%	
Digital output level	Transistor output MT: Low level NPN, COM connected to negative	
Digital output type and load	Transistor MT: 0.5A/point, 2A/4-point COM; Voltage specification: 12VDC-36VDC	
High speed counting input	Single phase 3-channel 200KHz+3-channel 10KHz or 2-channel AB phase 200KHz	
High speed pulse output	High speed pulse output	Conventional 8-channel Y0~Y7 is 200KHz Additionally, 4 axis control modules (16 channels, 200KHz) can be expanded
Ethernet	/	Supports MODBUS TCP, Ether Net/IP
CAN communication	/	Support optional installation of 1 CANOPEN channel
Ether CAT	/	Support optional installation of 1 route
Expansion card	/	Support 2
Serial port	The total number of communication ports is 2. The default is 1 RS485 and 1 RS232.	
Programming port	1 Type-C USB Port	
programming software	Vtool PRO	

For detailed information, please refer to the "Coolmay M300 Series PLC Programming Manual" and the "Coolmay M300 Series PLC User Manual"

CX3G PLC

Image

CX3G-16M



CX3G-24M



CX3G-48M



CX3G-64M、CX3G-80M



Product specifications

Model	CX3G-16M	CX3G-24M	CX3G-48M	CX3G-64M	CX3G-80M
Dimension	65*90*36mm	130*90*36mm	200*90*36mm	290*90*36mm	
Cutout size	77*99mm	122*99mm	192*99mm	282*99mm	
Weight(kg)	0.15	0.25	0.4	0.55	
Installation	Fixed hole installation and DIN-Rail (35mm)				
Features	Support interrupt, linear arc interpolation, PID auto-tuning. 32K program capacity, 32K retentive register				
No-load power consumption	0.72W	1.2W			
Full load power consumption	MT/1.2W MR/1.44W	MT/2.4W MR/2.88W	MT/3.1W MR/3.84W	MT/3.8W MR/4.8W	MT/4.8W MR/6.3W
High speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10 KHz				
High speed pulse (only for MT models)	8 channels 10KHz	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz			
	High-speed counting + high-speed pulse < 480KHz				
COM port	1x Mini type B USB programming port, 1x RS232 programming port (Interface terminal is mouse female port with 8 holes), 2x RS485 COM ports				
Software	Compatible with GX WORKS 2				

Detailed info. refer to COOLMAY CX3G PLC Programming Manual CX3G PLC user manual
Support interruption, linear arc interpolation, and PID self-tuning; 32K step program capacity, 32K power down hold registers.
*If the analog input of the CX3G-24M reaches 8 inputs, the maximum switch input can only be 10 inputs;

Optional functions

Product specifications

Model	I/O	Output	AI/AO	AI type	AO type	PLC COM port
CX3G-16M	8/8	MT	/	/	/	2x default RS485 ports can be changed into -1x RS485 + 1x RS232 Or -1x RS485 + 1x CAN (2.0A/B) port Or -1x RS232 + 1x CAN (2.0A/B) port
CX3G-16M	8/6	MR	/			
CX3G-24M	12/12	MT	2/1 or 4/2 or 6/4	-Thermocouple E/E ₂ /K/K ₂ /S/S ₂ /T/T ₂ /J/J ₂ / PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K/ -0~10V/ 0~5V/ -5V~5V/ -10V~10V -0~20mA/ 4~20mA -Mixed	-0~10V / 0~5V/ -5~5V/ -10~10V (2AO for 1 minus voltage) -0~20mA/ 4~20mA -Mixed/	
CX3G-24M	12/12	MR				
CX3G-48M	24/24	MT	2/1 or 4/2 or 6/4 or 8/4			-2x default RS485 ports can be changed into a)1x RS485 + 1x RS232 Or b)1x RS485 + 1x CAN (2.0A/B) port Or c)1x RS232 + 1x CAN (2.0A/B) port -1x Ethernet port
CX3G-48M	24/24	MR				
CX3G-64M	32/32	MT	2/1 or 4/2 or 6/4 or 8/4 or 12/8 or 16/8			--1x RS232 COM port (changed from one default RS485 port) -1x CAN (2.0A/B) port -Ethernet port
CX3G-64M	32/32	MR				
CX3G-80M	40/40	MT	2/1 or 4/2 or 4/4			
CX3G-80M	40/40	MR				



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HMI

TK60 series HMI | TK80 series HMI

TK60 series HMI

Image

TK6037FH



TK6043FH



TK6050FH



TK6070FH



TK6100FH



TK6150FH



Product specifications

	Model	TK6037FH	TK6043FH	TK6050FH	TK6070FH	TK6100FH	TK6150FH	
Specs	Dimension	88*88*25mm	134*102*34mm	151*96*36mm	200*146*36mm	275*194*36mm	386*300*40mm	
	Cutout size	72*72mm	120*94mm	143*86mm	192*138mm	262*180mm	366*280mm	
	Display size	73*56mm	97*56mm	108*65mm	154*87mm	222*125mm	305*229mm	
	Weight(kg)	0.3 kg	0.33 kg	0.33 kg	0.54 kg	0.7 kg	3.3 kg	
Display	Display	3.5" TFT	4.3" TFT	5" TFT	7.0" TFT	10.1" TFT	15" TFT	
	Resolution (pixels)	320*240	480*272	800*480	800*480	1024*600	1024*768	
	Brightness	300cd/m²	400cd/m²	300cd/m²				450cd/m²
	Contrast ratio	400:1						
	Backlight	LED						
	Backlight time	60,000 hours						
	Display color	65536 colors						
	Touch type	4-wire resistive panel						
Storage	ROM	NOR Flash 8MB		NOR Flash 16MB				
	RAM	64MB (HMI when stores historical data, optional ferroelectric is required)						
	CPU	32bit CPU 408MHz						
Interface	Interface	-Download port: Type-C, RS232, RS485 COM port: RS232, RS485				-Download port: Type-B, RS232, RS485 -COM ports: RS232, RS485	-Download port: Type-C, RS232, RS485 -COM ports: RS232, RS485	
	Protocol	RS232/RS485 supports MODBUS, free port and common PLC communication protocol						
Calendar		Yes						
Input Voltage		12-24VDC±10%<150mA @ 24VDC						
Consumption		42mA/24V	72mA/24V	85mA/24V	107mA/24V	145mA/24V	400mA/24V	
Protection Class		IP65 (front panel)						
Temperature		Ambient environment: 0 ~ 50℃ Storage environment: -20 ~ 70℃						
Humidity		20% ~ 90% RH						
Certification		CE					/	
Software		CoolMay mView HMI programming software Detailed info. refer to Coolmay TK Series HMI Programming Manual CoolMay TK HMI User Manual						

Optional functions

Product specifications

Model	WIFI (occupy default RS485 port)	Ferroelectric (store data)
TK6037FH	/	Yes
TK6043FH	Yes	Yes
TK6050FH	Yes	Yes
TK6070FH	Yes	Yes
TK6100FH	Yes	Yes
TK6150FH	Yes	Yes

TK80 series HMI

Image

TK8037H



TK8043H



TK8050H



TK8070H/HD



TK8100H



TK8150H



Product specifications

	Model	TK8037H	TK8043H	TK8050H	TK8070H/HD	TK8100H	TK8150H
Specs	Dimension	88*88*25mm	134*102*32mm	151*96*36mm	200*146*36mm	275*194*36mm	386*300*40mm
	Cutout size	72*72mm	120*94mm	143*86mm	192*138mm	262*180mm	352*279mm
	Display size	73*56mm	97*56mm	108*65mm	154*87mm	222*125mm	305*228mm
	Weight(kg)	Approx. 0.3 kg	Approx. 0.33 kg	Approx. 0.33 kg	Approx. 0.54 kg	Approx. 0.7 kg	Approx. 3.414 kg
Display	Display	3.5" TFT	4.3" TFT	5" TFT	7.0" TFT	10.1" TFT	15" TFT
	Resolution (pixels)	320*240	480*272	800*480	8800*480/1024*600	1024*600	1024*768
	Brightness	300cd/m²	400cd/m²	300cd/m²			450cd/m²
	Contrast ratio	400:1					
	Backlight	LED(brightness 0-100 adjustable)					
	Backlight time	60,000 hours					
	Display color	1677W true color					
	Touch type	4-wire resistive panel					
Memory	ROM	NAND Flash 128MB			NAND Flash 128MB/256MB	NAND Flash 256MB	NAND Flash 128MB
	RAM	128MB			128MB/256MB	256MB	128MB
	CPU	Dual core 1GHZ					
Operating system		Based on Linux system					
USB port		USB 2.0×1 (usb interface, external U disk can be used to update programs and upload and download historical data)					
Communication interface	Download port	Type-C, RS232, RS485, Network port			Type-C, RS232, RS485*2, Network port	Type-B, RS232, RS485, Network port	Type-C, RS232, RS485*2, Network port
	EtherNet	Support MODBUS, free port and common PLC communication Protocol					
	Serial port support protocol	Comes with 1 RS232 and 1 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)			Comes with 1 RS232 and 2 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)	Comes with 1 RS232 and 1 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)	Comes with 1 RS232 and 2 RS485 (Supports MODBUS protocol, free port and conventional PLC communication protocol)
	SD card	SD card can be optionally installed except for TK8037H					
Calendar		Yes					
Input Voltage		12-24VDC±10%<150mA @ 24VDC					
Consumption		42mA/24V	72mA/24V	85mA/24V	107mA/24V	145mA/24V	12-24VDC±10%<500mA @ 24VDC
Protection Class		IP65 (front panel)					
Temperature		Working environment -20~60 °C; Storage environment -20~70 °C					
Humidity		20% ~ 90%RH					
Software		Vcool 1.0.8					
Reference		“CoolMay TK80 Series (Vcool) User Manual”, “CoolMay TK80 Series User Manual”					



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Servo system

Pulse type servo driver | Bus type servo drive | Servo motor | Servo PLC All-in-one
Stepper PLC All-in-one | Stepper driver | Stepper motor

Pulse type servo driver

Image

C600S-40 | C600S-75



C630S-40 | C630S-75



C620S



Product specifications

Model	C600S-40	C600S-75	C630S-40	C630S-75	C620S
Dimension	160*135*42				190*160*47
Installation dimension	150*27				180*40
output power	0.1KW~0.4KW/0.4KW~1KW		0.1KW~0.4KW/0.4KW~1KW		1KW~2KW
Adaptive motor	CN7J-060430A3KUAA、CN7J-060430A3KVBA (with brakes) CN7J-080830A3KUAA、CN7J-080830A3KVBA (with brakes) CN7J-081030A3KUAA、CN7J-081030A3KVBA (with brakes)				CN8G-131325A3KUAA、 CN8G-131325A3KVBA (with brakes) 、 CN8G-131525A3KUAA、 CN8G-131525A3KVBA (with brakes) 、 CN8G-132025A3KUAA、 CN8G-132025A3KVBA (with brakes)
Main circuit input power supply	Single phase AC220V -15%~+10% 50/60Hz				Single phase/three-phase AC220V-15%~+10% 50/60Hz
Communication mode	Comes with 1 RS485 and supports standard Modbus RTU protocol				
Digital quantity	Comes with 4DI/4DO, customizable by users, supports NPN or PNP connections (non miscible)				
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control method; 3: Position velocity hybrid control method; 4: Position torque hybrid control method; 5: Speed torque hybrid control method				
Protection function	Overspeed/main power overvoltage/undervoltage/overcurrent/overload/encoder abnormality/- control power abnormality/position deviation				
Monitoring function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/operating status, etc				
Control input	1: Servo Enable 2: Alarm Clear 3: CCW Drive Prohibited 4: CW Drive Prohibited 5: Deviation counter reset 6: Command pulse prohibition 7: CCW torque limit 8: CW torque limit				
Control output	Servo ready/servo alarm/positioning completed/mechanical braking				
Dynamic braking	Supports built-in and external (default built-in)				
Applicable load	Less than 3 times the inertia of the motor				
Display operation	5-digit LED digital display, 4 operation buttons		5-digit LED digital display, 5 operation buttons		5-digit LED digital display, 4 operation buttons
Position control	Input method	0: Pulse+direction; 1: CCW/CW pulse; 2: A/B two-phase orthogonal pulse; 3: Internal position control			
	Input electronic gear ratio	Gear ratio molecule: 1-32767; Gear ratio denominator: 1-32767			
Cooling method	Natural cooling or forced air cooling				
Usage environment	Occasion	A place with good ventilation, low humidity and dust, no water vapor, and direct sunlight. No corrosive, ignition gas, oil and gas, cutting fluid, cutting powder, iron powder and other environments.			
	Temperature/ humidity	Operating temperature range of 0-50 °C; Storage temperature -20 °C~65 °C humidity 40~85% RH (no condensation)			
Weight (net weight)	675g/750g		675g/750g		1030g
Detailed information reference	Coolmay C600S AC Servo Manual and Coolmay C600S AC Servo User Manual		Coolmay C630S Servo User Manual Coolmay C630S Servo User Manual		Coolmay C620S AC Servo Manual and Coolmay C620S AC Servo User Manual

Bus type servo drive

Image

C600E-40



C600E-75



Product specifications

Model	C600E-40		C600E-75	
External dimensions	160*135*42			
Installation size	150*27			
output power	0.1KW~0.4KW		0.75KW~1KW	
Adaptive motor	CN7J-060430A3KUAA, CN7J-060430A3KVBA (with brakes)		CN7J-080830A3KUAA, CN7J-080830A3KVBA (with brakes) 、 CN7J-081030A3KUAA, CN7J-081030A3KVBA (with brakes)	
Main circuit input power supply	Single phase AC220V-15%~+10% 50/60Hz			
Communication method	Comes with 1 RS485 and supports standard Modbus RTU protocol; RJ45*2, Supports EtherCAT communication protocol, addresses are automatically assigned through the main station			
Numerical quantity	Comes with 4DI/4DO, customizable by users, supports NPN or PNP connections (non miscible)			
Control mode	0: Position control mode 1: Speed control mode 2: Trial operation control mode 3: JOG control mode 6: Torque control mode			
Protection function	Overspeed/main power overvoltage/undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position deviation			
Monitoring function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/operating status, etc			
Control input	1: Negative limit 2: Positive limit 3: Origin signal 4: CCW drive disabled 5: CW drive prohibition 6: Deviation counter reset 7: Instruction pulse prohibition 8: CCW torque limit 9: CW torque limit			
Control output	Servo ready/servo alarm/positioning completed/mechanical braking			
Energy consumption braking	Supports built-in and external (default built-in)			
Applicable load	Supports built-in and external (default built-in)			
Display operation	5-digit LED digital display, 4 operation buttons			
Position control	Input method	Bus based communication		
	Input electronic gear ratio	Bus type gear ratio accuracy: 1-13107		
		Gear ratio motor accuracy: 17 digit absolute value		
Cooling method	Gear ratio motor accuracy: 17 bit natural cooling or forced air cooling			
Usage environment	Occasion	Can be placed next to other heat generating equipment, avoiding dust, oil mist, corrosive gases, high humidity, and strong vibration areas. Combustible gases and conductive dust are prohibited		
	Temperature	Operating temperature range of 0-50 °C; Storage temperature -20 °C~65 °C		
	humidity	40 ~ 85%RH		
Weight (net weight)	675g		750g	
Detailed information reference	Coolmay C600E AC Servo Manual ; Coolmay C600E AC Servo User Manual			

Servo motor

Product specifications

Frame	Model	Voltage (V)	Power (W)	Rotational speed(rpm)	Torque (Nm)	Brake	LL (mm)	Adapted Driver	Paired with encoder
60mm	CN7J-060430A3KUAA	AC220V	400	3000	1.27	/	98	C600S-40 MX3G-C40-32MT C600E-40、C630S-40	Default: 17 bit magnetic encoder, single loop, incremental encoder 【Optional: 17 bit magnetic encoder, multi turn, absolute value encoder】
	CN7J-060430A3KVBA		400	3000	1.27	Yes	136		
80mm	CN7J-080830A3KUAA		750	3000	2.4	/	107	C600S-75 MX3G-C75-32MT C600E-75、C630S-75	
	CN7J-080830A3KVBA		750	3000	2.4	Yes	147		
	CN7J-081030A3KUAA		1000	3000	3.2	/	120	C600S-75 MX3G-C75-32MT C600E-75、C620S C630S-75	
	CN7J-081030A3KVBA		1000	3000	3.2	Yes	160		
130mm	CN8G-131325A3KUAA		1300	2500	5	/	137	C620S	
	CN8G-131325A3KVBA		1300	2500	5	Yes	171		
	CN8G-131525A3KUAA		1500	2500	6	/	145.5		
	CN8G-131525A3KVBA		1500	2500	6	Yes	179.5		
	CN8G-132525A3KUAA		2000	2500	7.7	/	170		
	CN8G-132525A3KVBA		2000	2500	7.7	Yes	204		
									

Servo matching wire

Wire classification	Model	Describe	Adapted Driver	Notes
Power line	BM600S-XX-G-N-9PA	XX is the length of the line, XX=01, 03, 05, ...	C600S、C600E、C630S MX3G-C40/C75-32MT	Conventional servo drivers and servo motors only need to be configured with encoding lines and power lines
	BM620S-XX-G-N-7PH	XX is the length of the line, XX=03, 04, ... 5 million times, encoder line	C620S	
Power+brake wire	DL600S-XX-G-N-4PA	XX is the length of the line, XX=01, 03, 05, ...	C600S、C600E、C630S MX3G-C40/C75-32MT	
	DL620S-XX-G-N-4PH	XX is the length of the line, XX=03, 04, ... 5 million times, power line	C620S	
Brake line	DL620S-XX-G-N-7PH	XX is the length of the line, XX=03, 04, ... 5million times, Power+brake wire	C620S	If choosing to use a brake servo motor, it is necessary to configure a coding line, power line, and brake wire
	BZ600S-XX-G-N-2PA	XX is the length of the line, XX=01, 03, 05, ...	C600S、C600E、C630S MX3G-C40/C75-32MT	

Servo PLC All-in-one

Image

MX3G-C40-32MT



MX3G-C75-32MT



Product specifications

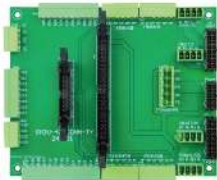
Model	MX3G-C40-32MT	MX3G-C75-32MT
Dimension	160*135*42	
Installation dimension	150*27	
Weight(kg)	0.75	
Servo		
output power	0.05KW~0.4KW	0.75KW~1KW
Adaptive motor	CN7J-060430A3KUAA or CN7J-060430A3KVBA (with brake)	CN7J-080830A3KUAA or CN7J-080830A3KVBA (with brake)
Main circuit input power supply	Single-phase AC220V-15%~+10% 50/60Hz	
Input power	Main circuit power supply: single-phase AC220V, voltage range 200V~240V, 50/60Hz Control loop power supply: provided by internal conversion, no external power supply required	
Communication method	Comes with 1 RS485 (terminal A B), supports standard modbus RTU protocol (connected with internal PLC)	
Control mode	0: Position control mode; 1: Speed control mode; 2: Torque control mode; 3: Position-speed hybrid control mode; 4: Position-torque hybrid control mode; 5: Speed-torque hybrid control mode	
Protection function	Overspeed/main power overvoltage and undervoltage/overcurrent/overload/encoder abnormality/control power abnormality/position out of tolerance	
Protection function	Speed/current position/command pulse accumulation/position deviation/motor torque/motor current/running status, etc.	
Control input	1: Servo enable 2: Alarm clear 3: CCW drive prohibition 4: CW drive prohibition 5: Deviation counter is cleared 6: Command pulse prohibited 7: CCW torque limit 8: CW torque limit	
Control output	Servo ready/servo alarm/positioning complete/mechanical brake	
Energy consumption braking	Support built-in and external	
Applicable load	Less than 3 times of motor inertia	
Display operation	5-digit LED digital tube display, 4 operation keys	
Encoder feedback	17-bit single-turn absolute encoder	
PLC		
PLC logic supply voltage	DC24V	
I/O	Fixed 16DI/16DO, all programmable and universal	
I/O level	Input: passive NPN, common terminal connected to 24V+; output MT: low level NPN, COM connected to negative	
DO type and load	MOS tube: 2A/point, 4A/4 points COM, 5A/12 points COM;	
High-speed counting	Conventional 2 channel single-phase 60KHz + 4 channel 10KHz or 1-way AB(Z) phase 30KHz + 1 channel AB(Z) phase 5KHz	
High-speed pulse	Conventional 4 channel Y0-Y1 is 100KHz, Y2-Y3 is 50KHz; (wherein, the internal servo of Y0 is occupied) High-speed counting + high-speed pulse total can not exceed 300KHz	
Communication port	Comes with 1 RS485 (terminal A1 B1) (support modbus protocol, RS protocol, etc.)	
Software	Compatible with GX Works2/GX Developer8.86Q	

Detailed info. refer to: Coolmay MX3G-C40 C75-32M Servo PLC All-in-One Manual Coolmay MX3G-C40 C75 Servo All-in-One User Manual

Stepper PLC All-in-one

Image

Performance specifications



SM3U-2Z



SM3U-4Z



Product specifications

Classification	Performance specifications	SM3U-2Z	SM3U-4Z
Integrated machine	Installation dimensions of the main control board	Horizontal installation: 103 * 100 * 48mm Card insertion installation: 45 * 142 * 89mm	Horizontal installation: 103 * 100 * 48mm Card insertion installation: 45 * 142 * 89mm
	Terminal board size	135*100mm	160*110mm
	Pulse frequency	Default 200KHz	
	working voltage	DC24V/2A	
	control mode	Support open-loop and closed-loop control	
	Motor shaft output	2-axis output	4-axis output
Stepper drive	Maximum output current	6.0A	
	Working voltage/current	DC24V/DC48V (2 channels simultaneously output 150w)	DC24V/DC48V (4 channels simultaneously output 300w)
	Step angle	1.8°	
	Applicable motors	The default matching closed-loop motor base is 86 series closed-loop motors, with optional 42, 57, 60, etc	
	Subdivide	Default 7200 subdivision, can use Y point to control any subdivision within 800~25600	
	Drive mode	Pulse driven	
	Operation mode	Independent programmable logic controller (PLC), external control (stepper pulse, PWM, encoder A/B), or distributed network control (modbus/rs communication)	
	Acceleration and deceleration characteristics	S-shaped curve acceleration and deceleration mode, with independent acceleration and deceleration settings	
PLC part	Number of encoder lines	Default is 1000 lines, can be customized to any encoder line number such as 2500 lines, 5000 lines, etc	
	programming software	VTool Pro	
	Digital input and output signals	12DI14DO	32DI24DO
	Analog input signal	2AI (0-10V)	/
	Communication type	COM1: Round mouth RS232 COM2: RS485 (A1 B1)	1个RJ45 COM1: Round mouth RS232/DB9 RS232 COM2: RS485 (A1 B1) COM3: RS485 (A B)
	Program capacity	30K/step	
	High speed processing	I/O refresh instruction, supports interrupts, PID self-tuning, electronic cam, G-code, arc linear interpolation, etc	
	Supporting languages	Instructions, ladder diagram (LD), step ladder diagram (SFC)	
Usage environment	SEnvironmental temperature and humidity for use	-10~50 °C does not freeze, 40~99 [RH%] does not condense	
	Storage temperature and humidity	-20 °C~60 °C (maximum temperature guarantee: 80 °C for 72 hours), 10~99 [RH%] no condensation	
	Using altitude	Below 1000m altitude	
	Vibration/shock	5.9 (m/s ²) /19.6 (m/s ²)	
	Cooling method	Natural cooling or forced air cooling at altitude	
	Application scenarios	Cannot be placed next to other heat generating equipment. Avoid dust, oil mist, corrosive gases, high humidity, and strong vibration areas. Combustible gases and conductive dust are prohibited	
	Comprehensive protection design	Overcurrent, short circuit, grounding, overvoltage, undervoltage I2t, Control errors	

Reference: Coolmay Stepper Drive PLC all in one Manual ; Coolmay SM3U Stepper Drive Control all in one User Manual

Stepper driver

Image

CM542S



CM872S



CMA860S



CM6C



CL57G



CL86G



Product specifications

Classification		Open loop driver (universal type)				Closed loop driver	
		CM542S	CM872S	CMA860S	CM6C	CL57G	CL86G
specifications	External dimensions	118*76*34mm	118*76*34mm	151*97*48mm	118*76*34mm	119*76*34mm	119*76*34mm
		about 260 g	about 280 g	about 400 g	about 200 g	about 300 g	about 300 g
Electrical parameters	Output current	1.0A-4.2A	2.0A-7.2A	2.0A-7.2A	1.0A-6.0A	2.2A-5.0A	2.8A-6.0A
	Input power supply	DC24V-50V; Typical valuesDC36V	DC20V-80V; Typical valuesDC36V	AC24V-80V/DC24-110V; Typical valuesDC48V	DC15V-50V/AC12-36V; Typical valuesDC36V/AC24V	AC18-55V/DC24-80V; Typical valuesDC36V/AC24V	AC18-80V/DC24-110V; Typical valuesDC36V/AC24V
	Input current	6-16mA	6-16mA	6-16mA	6-16mA	7-20mA	7-20mA
	Interface level	DC4.5-28V	DC4.5-28V	DC4.5-28V	DC5-24V	DC3.3-28V	DC3.3-28V
	Input minimum pulse width	1.5μs	1.5μs	1.5μs	1.5μs	1.5μs	1.5μs
	Pulse frequency	0-200KHz	0-200KHz	0-200KHz	0-200KHz	0-200KHz	0-200KHz
	insulation resistance	500MΩ	500MΩ	500MΩ	100MΩ	100MΩ	500MΩ
	phases	2	2	2	2	2	2
	subdivide	Any subdivision	Any subdivision	Any subdivision	25600	51200	51200
	Adapt motor	Frame: 42-57	Frame: 60-86	Frame: 86	Frame: 57/60	Frame: 57/60 (Closed loop motor)	Frame: 86 (Closed loop motor)
Cooling method		Natural cooling or forced air cooling					
Usage environment	Occasion	It cannot be placed next to other heating equipment, and should avoid dust, oil mist, corrosive gases, high humidity, and strong vibration places. Combustible gases and conductive dust are prohibited;					
	Temperature	-5°C ~ +50°C					
	Humidity	40 ~ 90%RH					
	Vibrate	5.9m/s² MAX					
	Storage temperature	-20°C ~ 80°C					
Using altitude		Below 1000 meters					
Reference material		CM542S Digital Two Phase Stepper Driver User Manual; CM872S Digital Two Phase Stepper Driver User Manual; CM860S Digital Two Phase Stepper Driver User Manual; CM6C Open Loop Stepper Motor Driver User Manual; CL57G High Performance Two Phase Digital Stepper Driver *; * CL86G High Performance Two Phase Digital Stepper Driver *					

Stepper motor

Product specifications

Frame	Model	Motor height	phases	Torque	Step moment angle	current	HMI COM port	Remarks
40	K4218HB-40	40mm	2	0.45Nm	1.8°	1.7A	0.28	The beginning of K represents an open-loop motor, and the beginning of B represents a closed-loop motor. The middle letter HB represents the output rotary motor, HC represents the output linear motor, HBR: Indicate brake motor
	K4218HB-48	48mm		0.6Nm	1.8°	1.7A	0.35	
	K4218HB-60	60mm		0.89Nm	1.8°	1.7A	0.47	
57	K5718HB-56	56mm	2	1.3Nm	1.8°	4.4A	0.67	
	K5718HB-76	76mm		2.3Nm	1.8°	4.4A	1.04	
	K5718HB-84	84mm		2.5Nm	1.8°	4.4A	1.14	
	K5718HB-100	100mm		3.1Nm	1.8°	4.4A	1.46	
	K5718HB-113	113mm		3.6Nm	1.8°	4.4A	1.68	
	B5718HB-76	76mm		2.3Nm	1.8°	4.0A	1.04	
	B5718HB-99	99mm		2.3Nm	1.8°	4.4A	1.46	
	B5718HB-123	123mm		3.1Nm	1.8°	4.4A		
60	K6018HB-66	66mm	2	2.2Nm	1.8°	4.0A	1.0	
	K6018HB-86	86mm		3.1Nm	1.8°	4.0A	1.3	
	K6018HB-100	100mm		3.6Nm	1.8°	4.0A	1.7	
86	K8618HB-80	80mm	2	4.5Nm	1.8°	6.0A	2.35	
	K8618HB-118	118mm		8Nm	1.8°	6.0A	3.95	
	K8618HB-156	156mm		12Nm	1.8°	6.0A	5.5	



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Variable Frequency Drive

CM540 | CM300 | CM500

Variable Frequency Drive

Image

CM540-0.75/1.5/4.0KW



CM540-5.5/7.5/11KW



Model	CM540-0.75/1.5/4.0KW	CM540-5.5/7.5/11KW
Dimension L*W*Hmm	118*156*185	247*160*176
Weight	2.0kg	3.7kg
Basic Function		
Maximum frequency	Vector control: 0 ~ 600Hz V/F control: 0 ~ 3200Hz	
Carrier frequency	0.8kHz ~ 12kHz. The carrier frequency automatically adjusted based on the load features.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: Maximum frequency × 0.025%	
Control mode	Open-loop vector control (SVC), Closed-loop vector control (FVC), VF control.	
Startup torque	G type: 0.25Hz/150% (SVC), 0Hz/180%(FVC), P type: 0.5Hz/100%	
Speed range	1:200(SVC), 1:1000(FVC)	
Speed stability accuracy	±0.5%(SVC), ±0.02%(FVC)	
Torque control precision	±5% (SVC) (above 10Hz), ±3%(FVC)	
Overload capacity	G type: 150% rated current 60s. 180% rated current 3s. P type: 120% rated current 60s. 150% rated current 3s.	
Torque boost	Automatic torque boost. Manual torque boost 0.1% ~ 30.0%	
V/F curve	Five modes: Straight-line, Multi-points, Square V/F, V/F separation, V/F Semi-separation	
V/F Separation	Two modes: complete separation, semi-separation	
Ramp mode	Straight-line ramp and S-curve ramp. Four kinds of acceleration/deceleration time with the range of 0.0~6500.0s	
DC injection braking	DC braking frequency: 0.00Hz ~ maximum, braking time: 0.0s ~ 36.0s. Braking action current value: 0.0% ~ 100.0%	
Jog control	Jog frequency: 0.00Hz ~ 50.00Hz Jog acceleration and deceleration time: 0.0s ~ 6500.0s	
Simple PLC, multistage speed operation	It implements up to 16 speeds via the simple PLC function or combination of DI terminal states.	
Built-in PID	It can keep constant output voltage automatically when the mains voltage changes.	
Over voltage/Over current loss of speed control	Automatic limit of the current and voltage during the operation, prevent frequent over current and over voltage	
Rapid current limit	Minimizing over-current fault and protect the normal operation of converter.	
Torque limit and control	"Excavator" characteristics, automatic limit of the torque during the operation, to prevent frequent over-current trip. Closed-loop vector mode torque control can be achieved.	

Other models: CM540-15/ 18.5/ 22KW, CM540-30/ 37KW, CM540-45/ 55/ 75KW, CM540-90/ 110KW, CM540-132/ 160/ 185KW, CM540-200/ 220/ 250/ 280KW, CM540-315/ 350KW.

The above models are all iron shells. For detailed dimensions, please contact us
Detail info refer to: Coolmay CM540-Inverter user manual

Variable Frequency Drive

Image

CM300



CM500



Product specifications

Model	CM300	CM500
Maximum frequency	Vector control: 0 ~ 300Hz V/F control: 0 ~ 500Hz (general purpose); 0 ~ 3200Hz (high frequency)	
Carrier frequency	0.5kHz ~ 16kHz The carrier frequency can be automatically adjusted according to the load characteristics.	
Input frequency resolution	Digital setting: 0.01Hz Analog setting: highest frequency●0.025%	
control method	Open loop vector control (SVC) Closed loop vector control (FVC) V/F control	
Startup torque	0.5Hz/150% (SVC); 0Hz/180% (FVC)	
Speed range	1:100 (SVC) 1:1000 (FVC)	
Speed stability accuracy	±0.5% (SVC) ±0.02% (FVC)	
Torque control accuracy	±5% (FVC)	
Overload capacity	G type machine: 150% rated current 60s; 180% rated current 3s.	
Torque boost	P type machine: 120% rated current 60s; 150% rated current 3s.	
V/F curve	Automatic torque boost; manual torque boost 0.1% ~ 30.0%	
V/F separation	Three methods: linear type; multi-point type; N-th power V/F curve	
Acceleration and deceleration curve	Linear or S-curve acceleration and deceleration mode. Four kinds of acceleration and deceleration time 0.0 ~ 6500.0s	
Jog control	Braking current value: 0.0% ~ 100.0%	
Simple PLC, multistage speed operation	Jog frequency range: 0.00Hz ~ 50.00Hz. Jog acceleration/deceleration time is 0.0s ~ 6500.0s.	
Built-in PID	Through the built-in simple PLC or control terminal to achieve up to 16-speed operation	
Automatic voltage adjustment (AVR)	It is convenient to realize the process control closed-loop control system	
Over voltage and over current stall speed control	When the grid voltage changes, it can automatically keep the output voltage constant	
Rapid current limit	Minimize over-current faults to protect the normal operation of the inverter	
Torque limit and control	The "shovel" feature automatically limits the torque during operation to prevent frequent over-current trips; closed-loop vector mode can realize torque control	

Other models: CM300-0R4GS2, CM300-R75GS2, CM300-R75GT4, CM500-R75GT4, CM500-3R7G/5R5PT4, CM500-R75GT2, etc.

For detailed dimensions and models, please contact us

Detail info refer to: Coolmay CM500-Inverter user manual

Power supply

Image

CM6024



L02-60P



L02-100P



CG36-24



CG60-24



CG100-24



Product specifications

product type	CM6024	L02-60P	L02-100P	CG36-24	CG60-24	CG100-24
Installation method	Standard guide rail installation and can be installed on NS35/7.5 or NS35 guide slot					
Appearance size	92*66*35mm	90*77*36mm		90*36*59mm	90*52*59mm	990*70*69mm
Wiring method	5P-7.62Fence terminal	6P-5.08Bent plug closed press type terminal		3P/2P- 5.0 Screw terminal	3P/4P-5.0 screw terminal	
input voltage	100 ~ 240VAC					
Input frequency	50/60Hz					
output voltage	DC24V					
Output current	2.5A	2A	4.15A		2.5A	4.2A
Impulse current	30A/230VAC					
surge current				≤100A/230VAC	≤150A/Input 115/230VAC	
Output accuracy	±1%					±0.5%
Output efficiency	86%	86%	88%	87.4%	88%	88%
Empty load consumption	< 0.5W	8.5W	5.7W	≤0.1W	≤0.21W	≤0.21W
working temperature	-20℃~70℃, 25-75%					
Storage temperature	-20℃~80℃, 10-95%					
Protection function	Short circuit/overvoltage/overload protection					

Gateway Module CM-BG200

Image

BG200



Product specifications

Model	CM-BG200
Installation	Standard rail installation, can be installed on NS35 \ 7.5 or NS35 guide slots
Dimension	88mm * 75mm * 26mm (excluding antenna and mounting components)
Rated power	<5W
Rated voltage	DC24V ± 10% working voltage
Maximum power consumption	12W
Networking method ①	4G SIM Telecom/Unicom/Mobile
Networking method ②	Ethernet
Networking method ③	Wi-Fi
CPU	580MHz MIPS
Storage	16MB Flash + 128MB DDR2
VPN	support
Ethernet	1 WAN, 1 LAN
Serial port	1 RS232, 1 RS485
working temperature	-10~60°C
ambient humidity	10~90% RH (non condensing)
Related Information: Coolamy Gateway CM-BG200 User Manual V24.31 Version	

Protocols supported by BG200

ce Protocols	Interfa	Support or not	485 232	RJ45
Siemens SMART200		yes		√
Mitsubishi FX1/2/3 series		yes	√	
Mitsubishi Q/5U		yes		√
Coolamy's various series PLCs		yes	√	√
MODBUS RTU protocol		yes	√	
MODBUS TCP protocol		yes		√

Cable

Image

Type C Cable



232 programming cable



USB-232 serial port cable



Mini type B usb programming cable



HMI programming cable for 7/10 inch HMI



CX2N PLC download cable



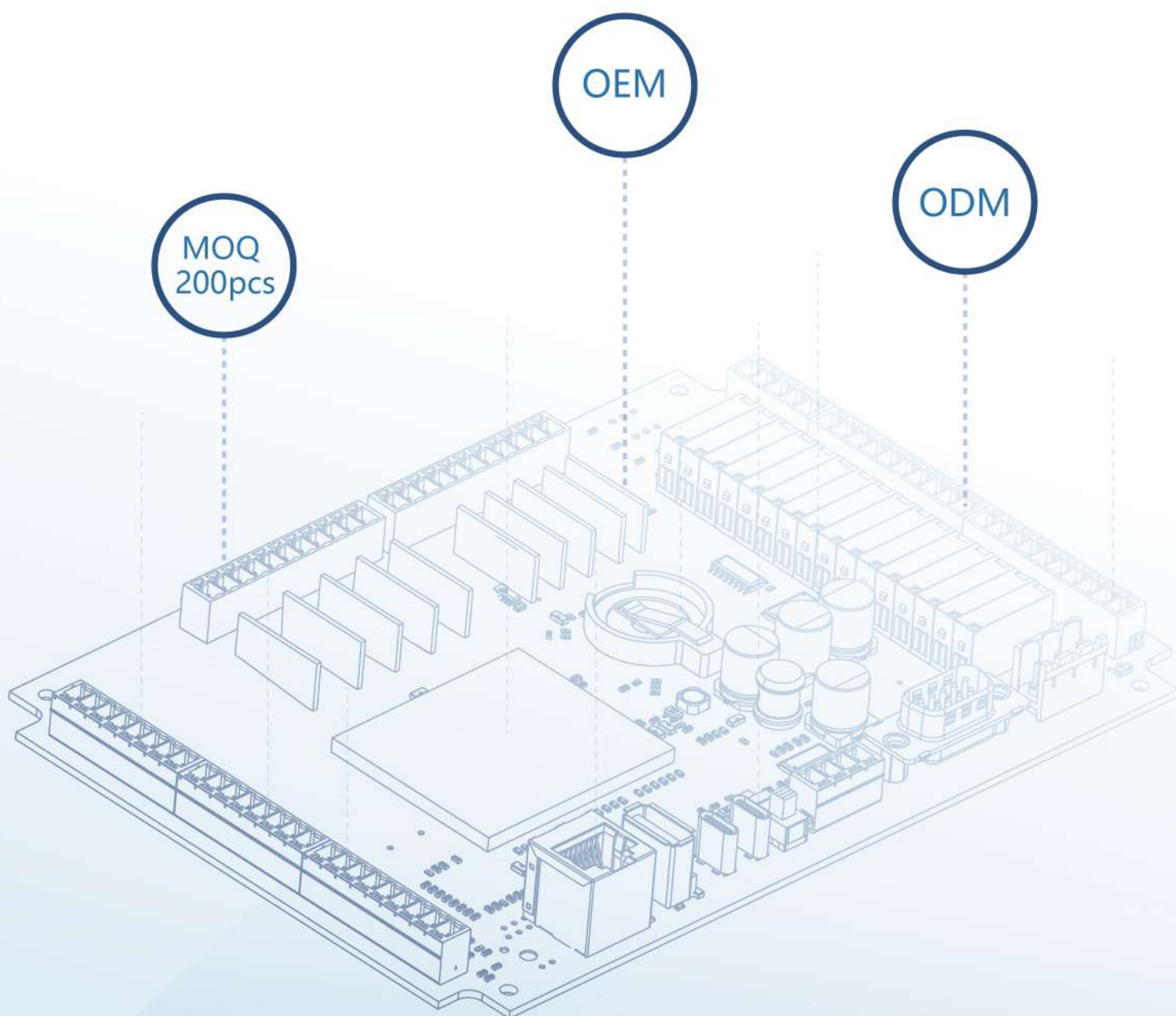
SC-11



Customization

Customization

- MOQ 200pcs
- OEM
- ODM





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