

Product Catalog

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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		[C0~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



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 /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/		
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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