









Shenzhen Coolmay Technology Co., Ltd

## Product Catalog 2017



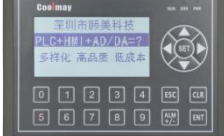



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# 1. HMI/PLC All-in-one

Basic version	EX2N-43H	EX2N-43KH/50KH	EX2N-70H	EX2N-100HA
Upgrade version	EX2N-43HA	EX2N-43KHA/50KHA	EX2N-70HA(S)	
Image				
				
Dimension	134*102*30mm	150*93*32mm	212*148*40mm	275*194*36mm
Cutout size	119*93mm	143*86mm	194*138mm	261*180mm
HMI				
Features	60K colors RTP, U disk storage, WINCE system, RS485/RS232/Ethernet port/Audio optional			
Display size	97*56mm	97*56/108*65mm	154*87mm	222*133mm
Resolution (pixels)	480*272	43KH: 480*272 50KH: 800*480	H/HAS: 800*480 HA: 1024*600	1024*600
RAM	H series with 64MB, HA(S) series with 128MB			
ROM	128MB			
CPU	H series ARM9 640MHz HA(S) CORTEX A8 720MHz-1G			
COM port	1 TP download port, 1 USB port			
	1 RS232 optional		1 RS485 or RS232 optional	
Software	CoolMayHMI V5.**(newest vesion pls see HTTP://coolmay.net)			
PLC				
Digital I/O	At most 12DI/ 12 DO		At most 24DI/ 20 DO (At most 18 relay outputs)	
I/O level	NPN			
Output type	Relay MR/transistor MT/mixed MRT; Maximum load of transistor is 500mA; Maximum load of relay is 5A			
High-speed counting	Normally 2 single counting (X0/X3) or 2 AB phase counting (X0-X1/X3-X4) 10KHz			
	At most 6 single counting can be customized (4 100KHz、 2 10KHz) Or 3 AB phase counting (2 100KHz、 1 10KHz) or 3 ABZ counting (1 100KHz 、 2 5-10KHz)			
High-speed pulse	Normally 4 20KHz, Y0/Y1/Y6/Y7			
	4 200KHz can be customized		5 200KHz can be customized, the 5 <sup>th</sup> is Y10	
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple/NTC10K/NTC50K/NTC100K etc.			
	AO: 0-10V/0-5V/0-20mA or mixed			
	At most 4AI/2AO		At most 12AI/8AO	
COM port	1 RS232			
	1 RS485 optional		1 RS232 or 1 RS485 optional	
Software	Compatible with MITSUBISHI GX8.52 and WORKS 2			
Regular models: EX2N-43H(A)/43KH(A)/50KH(A)-10/16/20/24MT/MR/MRT (-4AD2DA-485P/232H) EX2N-70H(A/AS)-10/16/20/24/30/32/38/40/44MT/MR/MRT (-12AD8DA-485P/232H) EX2N-100HA-10/16/20/24/30/32/38/40/44MT/MR/MRT (-12AD8DA-485P/232H) 485P/232P means 485/232 added in PLC; 485H/232 means 485/232 added in HMI Detailed info.refer to : <a href="#">《COOLMAY HMI/PLC All-in-on Programming Manual》</a> <a href="#">《HMI/PLC All-in-one User Manual》</a> <a href="#">《CoolMay HMI User Manual》</a>				

## 2. Programmable Text Monitor

Aritcal	EX2N-30A	EX2N-40A	EX2N-50A
Image			
			
Display Size	57*43mm	101*36mm	108*56mm
Dimension	134*102*30mm	212*148*40mm	212*148*40mm
Cutout Size	119*93mm	194*138mm	194*138mm
Display	3.3"LCD	3.7"LCD	5"LCD
TEXT			
Features	The font can be arbitrarily changed, support animated graphic		
Display screen	Normally blue screen with white letters, gray screen with black letters and Kelly screen is optional		
Resolution (pixel)	128*64	192*64	240*128
ROM	256K		
Pictures	At most 100 pictures		
Software	COOLMAY_30A Programming software	COOLMAY_40A Programming software	COOLMAY_50A Programming software
PLC			
Digital I/O	At most 12DI/12DO	At most 24DI/20DO (At most 18 relay output)	
I/O level	NPN		
Output Type	Maximum load of transistor (MT) is 500mA	Relay MR/transistor MT/both MRT. Maximum load of transistor is 500mA; Maximum load of relay is 5A	
High-speed counting	Normally 2 single counting (X0/X3) or 2 AB phase counting (X0-X1/X3-X4) 10KHz At most 6 single counting can be customized (4 100KHz、2 10KHz) Or 3 AB phase counting (2 100KHz、1 10KHz) or 3 ABZ counting (1 100KHz、2 5-10KHz)		
High-speed pulse	Normally 4 20KHz, Y0/Y1/Y6/Y7 4 200KHz can be customized		
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple /NTC10K/NTC50K/NTC100K etc.		
	AO : 0-10V/0-5V/0-20mA or mixed ones		
COM port	At most 4AI/2AO		
	At most 12AI/8AO		
COM port	1 RS232, it can download the program of both text and PLC		
	1 RS485 optional	1 RS232、1 RS485 or 1 RS485 ports optional	
Software	Compatible with MITSUBISHI GX8.52 and WORKS 2		
Regular models: EX2N-30A-10/16/20/24MT/MR/MRT(-4AD2DA-485/232) EX2N-40A-10/16/20/24/30/32/38/40/44MT/MR/MRT(-12AD8DA-485/232) EX2N-50A-10/16/20/24/30/32/38/40/44MT/MR/MRT(-12AD8DA-485/232)			
Detailed info. refer to: <a href="#">《COOLMAY PLC Programming Software》</a> <a href="#">《EX2N-A Programmable Text Monitor User Manual》</a>			







### 3. CX2N-HM PLC

Artical	CX2N-HM -24M	CX2N-HM -32M	CX2N-HM -36M	CX2N-HM -48M	CX2N-HM -64M	CX2N-HM -68M	CX2N-HM -80M
Image							
Dimension	125*90*36mm		195*90*36mm		240*90*36mm		285*90*36mm
Cutout Size	117*99mm		187*99mm		232*99mm		277*99mm
Installation	Fixed hole installation and DIN-Rail (35mm )						
Text							
Display size	57*43mm ( 15*20 chinese characters can be displayed )						
Diaplay screen	2.8" TFT TP, 320*240 pixels						
Color	60K colors display						
ROM	256KB						
CPU	32 bit processor						
Function key	8 can be defined arbitrary						
Brightness	350cd/m <sup>2</sup>						
Display mode	Support display vertically						
Software	《HM Editer Programming Software》						
<b>PLC</b>							
Digital I/O	At most 12DI/12DO	At most 16DI/16DO	At most 20DI/16DO	At most 24DI/24 DO	At most 32DI/32DO	At most 32DI/36DO	At most 40DI/40DO
I/O Level	NPN						
Output Type	Relay MR/Transistor MT/Both MRT Maximum load of transistor is 500mA; Maximum load of relay is 5A						
High-speed counting	Normally 2 single counting (X0/X3) or 2 AB phase counting (X0-X1/X3-X4) 10KHz						
	At most 6 single counting can be customized (4 100KHz、 2 10KHz) Or 3 AB phase counting (2 100KHz、 1 10KHz) or 3 ABZ counting (1 100KHz 、 2 5-10KHz)						
High-speed pulse	Normally 4 20KHz, Y0/Y1/Y6/Y7						
	4 200KHz can be customized		5 200KHz can be customized, the 5 <sup>th</sup> is Y10				
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple /NTC10K/NTC50K/NTC100K etc.						
	AO: 0-10V/0-5V/0-20mA or mixed ones						
	At most 8AI/4AO	At most 2AI/2AO	At most 16AI/8AO	At most 8AI/4AO	At most 8AI/4AO	At most 20AI/4AO and 16AI/8AO	At most 8AI/4AO
COM port	1 RS232						
	1 RS485、 1 RS232						
Software	Compatible with MITSUBISHI GX8.52 and WORKS 2, 《HMEditer Software》						
Regular models: CX2N-HM-16/20/22MT/MR/MRT(-8AD4DA-485/232) CX2N-HM-48MT/MR/MRT(-8AD4DA-485/232) CX2N-HM-24MT/MR/MRT(-8AD4DA-485/232) CX2N-HM-64MT/MR/MRT(-8AD4DA-485/232) CX2N-HM-30MT/MR/MRT(-2AD2DA-485/232) CX2N-HM-68MT/MR/MRT(-20AD4DA-485/232) CX2N-HM-32MT/MR/MRT(-2AD-485/232) CX2N-HM-80MT/MR/MRT(-8AD4DA-485/232) CX2N-HM-32/36MT/MR/MRT(-16AD8DA-485/232)							
Detailed info. refer to : PLC: <a href="#">《COOLMAY PLC Programming Software》</a> <a href="#">《CX2N PLC User Manual》</a> Color text: <a href="#">《HM-30B User Manual》</a> * CX2N-HM-24M if analog inputs 8points, the maximum digital inputs are 10points CX2N-HM-32M if analog points are 2AI/2AO, the maximum digital points are 16DI/14DO							


## 4. FX2NC PLC

Artical	FX2NC-12M (single row terminal)	FX2NC-16M (single row terminal)	FX2NC-24M (double row terminal)	FX2NC-28M/30M/32M (double row terminal)
Image				
				
Dimension	90*60*32mm    DIN-Rail Mounting(35mm )			
I/O level	NPN			
Digital I/O	At most 6DI/6DO	At most 8DI/8DO	At most 12DI/12DO	At most 16DI/16DO
Output type	Relay MR/Transistor MT/Both MRT Maximum load of transistor is 500mA; Maximum load of relay is 5A			
High-speed counting	Normally 2 single counting (X0/X3)or 2 AB phase counting (X0-X1/X3-X4) 10KHz			
	At most 6 single counting can be customized (4 100KHz、 2 10KHz) Or 3 AB phase counting (2 100KHz、 1 10KHz) or 3 ABZ counting (1 100KHz 、 2 5-10KHz)			
High-speed pulse	Normally 4 20KHz, Y0/Y1/Y6/Y7			
	4 200KHz can be customized			
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple /NTC10K/NTC50K/NTC100K etc.			
	AO:0-10V/0-5V mixed ones			
	At most 2AI/2AO	NULL	At most 4AI/2AO	NULL
COM port	1 RS422, another 1 RS485 can be added			1 RS422, another 1 RS485 can be added in 30M,2 RS485 ports can be added in 28M
Software	Compatible with MITSUBISHI GX8.52 and WORKS 2			
Regular models: FX2NC-10/12MT/MR(-2AD2DA-485) FX2NC-10/12/16/20/24MT/MR/MRT(-4AD2DA-485) FX2NC-28MT/MR/MRT(-485/485) FX2NC-30MT/MR/MRT(-485) FX2NC-32MT/MR/MRT				
Detailed info. refer to: <a href="#">《COOLMAY PLC Programming Manual》</a> <a href="#">《FX2NC PLC User Manual》</a>				











## 5. CX2N PLC

Article	CX2N-10M CX2N-16M	CX2N-16M CX2N-22M	CX2N-24M CX2N-32M	CX2N-36M CX2N-48M	CX2N-64M	CX2N-68M CX2N-80M
Image						
Dimension	65*90*36 mm	85*90*36mm	125*90*36mm	195*90*36mm	240*90*36mm	285*90*36mm
Cutout Size	57*99mm	77*99mm	117*99mm	187*99mm	232*99mm	277*99mm
Installation	Fixed hole installation and DIN-Rail (35mm )					
Digital I/O	At most 5DI/5DO	At most 8DI/8DO	At most 12DI/12DO	At most 20DI/16DO	At most 32DI/32DO	At most 32DI/36DO
	At most 8DI/8DO	At most 12DI/10DO	At most 16DI/16DO	At most 24DI/24DO		At most 40DI/40DO
I/O level	NPN					
Output Type	Relay MR/Transistor MT/Both MRT Maximum load of transistor is 500mA; Maximum load of relay is 5A					
High-speed counting	Normally 2 single counting (X0/X3) or 2 AB phase counting (X0-X1/X3-X4) 10KHz					
	At most 6 single counting can be customized ( 4 100KHz、 2 10KHz ) Or 3 AB phase counting (2 100KHz、 1 10KHz) or 3 ABZ counting ( 1 100KHz 、 2 5-10KHz)					
High-speed pulse	Normally 4 20KHz, Y0/Y1/Y6/Y7					
	4 200KHz can be customized			5 200KHz can be customized, the 5 <sup>th</sup> is Y10		
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple /NTC10K/NTC50K/NTC100K etc.					
	AO: 0-10V/0-5V/0-20mA or mixed ones					
	At most 2AI/2AO	At most 4AI/2AO	At most 8AI/4AO	At most 16AI/8AO	At most 8AI/4AO	At most 20AI/8AO/16AI/8AD
	NULL	NULL	At most 2AI/2AO	At most 8AI/4AO		At most 8AI/4AO
COM port	1 RS232					
	Another 1 RS485、 1 RS232 or 2 RS485 ports can be added					
Software	Compatible with MITSUBISHI GX8.52 and WORKS 2					
Regular models:	CX2N-10MT/MR/MRT(-2AD2DA-485/232)			CX2N-32/36MT/MR/MRT(-16AD8DA-485/232)		
	CX2N-16/20/22MT/MR/MRT(-8AD4DA-485/232)			CX2N-48MT/MR/MRT(-8AD4DA-485/232)		
	CX2N-24MT/MR/MRT(-8AD4DA-485/232)			CX2N-64MT/MR/MRT(-8AD4DA-485/232)		
	CX2N-30MT/MR/MRT(-2AD2DA-485/232)			CX2N-68MT/MR/MRT(-20AD4DA-485/232)		
	CX2N-32MT/MR/MRT(-2AD-485/232)			CX2N-80MT/MR/MRT(-8AD4DA-485/232)		
Detailed info. refer to:	<a href="#">《COOLMAY PLC Programming software》</a> <a href="#">《CX2N PLC User Manual》</a>					

## 6. CX3G PLC





Article	CX3G-34M(-12AD8DA)	
Image		
Dimension	195*90*36mm	
Cutout Size	187*99mm	
Installation	Fixed hole installation and DIN-Rail (35mm )	
Digital I/O	At most 18DI/16DO	
I/O level	MT Output: NPN MR output: NO contact	Input: Passive NPN, public terminal isolated
Output Type	Relay MR/Transistor MT/Both MRT Maximum load of transistor is 500mA; Maximum load of relay is 5A	
High-speed counting	Normally 2 single counting (X0/X3) or 2 AB phase counting (X0-X1/X3-X4) 10KHz At most 6 channels single phase, at most 60KHz or 2-3 channels AB(Z) phase. At most 60KHz for double frequency, 24KHz for quadruplicated frequency.	
High-speed pulse	At most 8 channels 100KHz pulse.Regularly Y0~Y7 is 8KHz(can be customized to 100KHz)。	
Analog I/O	AI: 0-10V/4-20mA/0-20mA/PT100/PT1000/EKSJ type thermocouple /NTC10K/NTC50K/NTC100K etc. AO: 0-10V/0-5V/0-20mA or mixed ones At most 12AD/8DA	
COM port	Default with a Rs232 programming port, and a Mini B-type USB One Rs485, one Rs232 or two Rs485 can be added, CAN can also be customized	
Software	Compatible with WORKS 2/ GX Developer 8.86	
Detailed info. refer to: <a href="#">《COOLMAY CX3G PLC Programming Manual》</a>		

## 7. Ture color HMI











Article		MT6037H	MT6043H(A)	MT6050H(A)	MT6070H(A/AS)	MT6100HA
Images	The front panel					
	The back side					
Regulation	Dimension	88*88*25mm	134*102*30mm	146*88*25mm	212*148*40mm	275*194*36mm
	Cutout Size	72*72mm	119*93mm	135*72mm	194*138mm	261*180mm
	Display size	73*56mm	97*56mm	108*65mm	194*138mm	222*133mm
	Weight (kg)	约 0.3 kg	约 0.33 kg	约 0.33 kg	约 0.54 kg	约 0.7 kg
Display	Display	3.5" TFT	4.3" TFT	5" TFT	7.0" TFT	10.2" TFT
	Resolution (pixels)	320*240	480*272	800*480	H/HAS: 800*480 HA: 1024*600	1024*600
	Brightness	300cd/m <sup>2</sup>				
	Contrast Ratio	400:1				
	Backlight	LED				
	Backlight life	60,000 h				
	Display color	65536 true colors				
Touch type	4-wire precision resistance network					
Storage	ROM	128MB				
	RAM	H Series with 64MB		HA(S) with 128MB		
	CPU	H series ARM9 core 640MHZ		HA(S): corex A8 720MHZ-1GHZ		
Interface	USB Host	Yes				
	USB Client	USB 2.0*1				
	Ethernet	Optional				
	COM port	RS232/RS485				
	Protocol	Support MODBUS、free port and normal PLC communication Protocol				
	Calendar	Yes				
Power supply	Input Voltage	Normally DC24±10%VDC, DC12V/DC5V can be customized				
	Consumption	100mA/24V	150mA/24V	150mA/24V	200mA/24V	280mA/24V
	Protection Class	IP65 (the front panel)				
	Temperature	Working environment -20~60℃; Storage environment-20~70℃				
	Humidity	20%~90%RH				
	Certification	CE				
	Software	<a href="#">《CoolMay HMI Programming Software》</a> ; detailed info. refer to <a href="#">《CoolMay HMI User Manual》</a>				





## 8. Text Display

Product type	HW-40B	HM-30B color text display
Image		
		
Display Size	101*36mm (4*12Chinese character can be displayed)	57*43mm (15*20Chinese character can be displayed)
Dimension	175*90*26mm	134*102*30mm
Cutout Size	165*78mm	119*93mm
Display	4.0"SNT TP, 192*64 Pixels	2.8"TFT TP, 320*240 Pixels
Brightness	97cd/m <sup>2</sup>	350cd/m <sup>2</sup>
Vertically display	No	Yes
Color	Normally blue screen , gray screen and Kelly screen is optional	60 thousand true color display
Character	At most 4*12Chinese character can be displayed	At most 15*20Chinese character can be displayed
ROM	64KB	256KB
CPU	8-bit processor	32-bit processor
Function key	19 can be defined arbitrary	18 can be defined arbitrary
COM Port	RS232, RS485/232	
Real-time clock	Yes	
Power input	Normally DC24V+-10%, DC12V/5V can be customized	
Power consumption	2W	3W
Weight	0.4KG	0.25KG
Temperature	Working environment -20~60℃; Storage environment-20~70℃	
Humidity	20%~90%RH	
Detailed materials	<HW-40B User Manual>	<HM-30B Users' Manual>
Software	<a href="#">&lt;HW40B Editor&gt;</a>	<HM Editor Software>




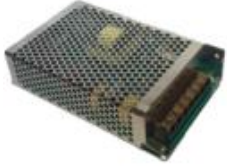




## 9. WIFI/GPRS/Ethernet /CM-WIFI-2NET/4Gmodules

Artical		CM-WIFI	CM-GPRS	CM-NET	CM-WIFI-2NET	CX-4G
Image	Flank					
	Back					
Installation		Standard guide rail's installation, can be installed on NS35\7.5or NS32 guide slot				
Dimension		90*60*32mm			65*90*36mm	
Wiring way		Power and RS232/485 adopts pluggble terminals				
Frequency range	2.412GHz-2.484GHz	850/900/1800/1900MHz z GSM	120MHz	2.412GHz-2.484GHz	5 modes, 12 channels	
Network standards	802.11 b/g/n	GSM/GPRS/EDGE	LAN ethernet:10/100Mbps	802.11 b/g/n	TDD-LTE/FDD-LTE WCDMA/TD-SCDMA/ GSM/GPRS/EDGE	
Data interface	RS232、RS485 300bps~460800bps	RS232、RS485 2400bps~921600bps	RS232、RS485 2400bps~921600bps	RS232、RS485 300bps-460800bps Ethernet: 100Mbps	RS232、RS485 300-230400bps	
Network type	STA/AP/STA+AP	GSM/GPRS/EDGE	10/100Mbps network port	Station/AP mode	TDD-LTE/FDD-LTE WCDMA/ TD-SCDMA GSM/GPRS/EDGE	
Network protocol	IPv4,TCP/UDP/HTTP	TCP/UDP/DNS/HTTP	IPv4,TCP/UDP	TCP/UDP/ARP/ICMP/ DHCP/DNS/HTTP	TCP/UDP/DNS/HTT	
User Configuration	Web page/Serial port AT command	Serial port AT command, network AT instruction, short message AT instruction	Configuration software/ Web page	Web server/network AT instruction	Serial port AT command, network AT instruction, short message AT instruction	
Transmit power	300-460800bps	2400-921600bps			300-460800bps	300-230400bps
Detail info refer to	<CM-WIFI user manual><CM-GPRS user manual><CM-NET Ethernet Module user manual><CM-WIFI-2NET user manual><CX-4G user manual> <Visual serial port CM-VCOM> <CM-GPRS module setting software><CM-NET module setting software><CX-4G module setting software>					

## 10. CM-RFM

Product type		CM-RFM
Image	Front	
	Back	
Frequency Range		430-450Mhz
Modulation way		GFSK
Serial port speed		1200,2400,4800,9600,19200,38400,115200bps
Channel spacing		150kHz
Transmission rate		1-100Kbps
Transmission power		Maximum 20dBm(100mw), 9 adjustable power available to choose
Receiver sensitivity		-114dBm(@10Kbps,dev=25kHz,BER<0.1%)
Cache space		Dual-256bytes
Transmission distance		1-2kilometers @10kbps,20dBm, open sapce
Wiring method		Power 3.50 Pluggable terminals RS485 adopt 3.81 Pluggable terminals
Refer info		<CM-RFM user manual>

## 11. Power supply

Artical		Power supply CM6024-12-5	Power supply CX2024	Power supply CM6024	Power supply CM15024
Image	Flank				
	Back				
Installation	Standard guide rail's installation, can be installed on NS35\7.5or NS32 guide slot				screw fixation, vertically or parallely installation
Dimension	85*90*36mm	65*90*36mm	90*60*32mm	159*97*38mm	
Connection mode	7.62 Barrier terminal			5P-7.62 Barrier terminal	7P-9.5Barrier terminal
Input voltage	88~264VAC or 125 373VDC				
Input frequency	47~63HZ				
Output voltage	DC24V/DC12V/DC5V	DC24V			
Output current	1A	0.8A	2.5A	6.5A	
Impulse current	30A/230VAC				60A/230VAC
Output accuracy	±1%				
Output efficiency	86%	85%	86%	89%	
No-load consumption	<0.5W				
Defensive function	Short circuit/overvoltage overload protection				
Detail info refer to	<Coolmay power supply user manual>				

## 12. Amplification module

Artical		Amplification module		
		CM-MOS	CM-SSR	CM-REY
		Transistor amplification module	Solid state amplification module	Intermediate amplifier module
Image	Front			
	Back			
Installation		Standard guide rail's installation, can be installed on NS35\7.5or NS32 guide slot		
Dimension		89.5*79*32.5mm		
Connection mode		5.08 pluggable terminal		
Input voltage		DC24V		
Input type		NPN		
Working voltage		DC12~30V	AC100~250V	DC/AC0~250V
Output current		5A	5A	15A
Max. Output current		10A	10A	16A
Output method		MOS	Zero-crossing trigger	Relay tip
Output points		6I/6O		
Output type		NPN		
Protection method		optoelectronic isolation, FWD protction	optoelectronic isolation,RC absorption circuit	Relay-isolated, 400V piezoresistor
Detail info refer to		< Coolmay amplifier user manual >		



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solutions of automation  
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