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SCADA | IPC | HMI | PLC

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CM1-UP1F	RUN STP ERR
	θι Τ.
PORT A	ACT
C PORT B	

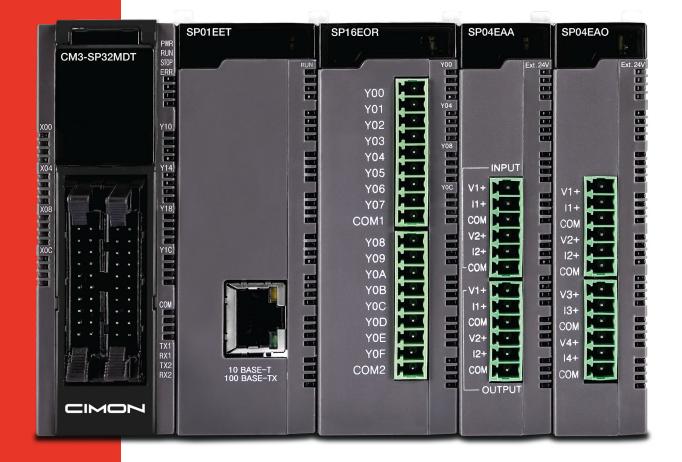






CIMON offers the most reliable and cost-effective controllers for a wide range of automation systems. Our PLC lineup is comprised of the UP Series, XP Series, CP Series, PLC-S Series, and Micro-S Series to accommodate a vast variety of applications.

# MINI-MODULAR PLC PLC-5



CIMON'S CM3 PLC-S mini-modular PLC are tailored for simple to medium complexity machine control and remote automation tasks, offering versatile communication and I/O functionalities. They can accommodate up to 384 I/O points with CM3 expansion I/O modules and have builtin features, including Ethernet connectivity, high-speed counting (HSC), pulse-train output (PTO) motion control, and proportional-integral-derivative (PID).

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### EMBEDDED I/O

Up to 16 discrete inputs and up to 16 discrete outputs.

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### **COMPACT & EASY EXPANSION**

Ultra-compact design with expandability up to 384 I/O, tailored for small to medium applications.



### PID

Calibrate any application apparatus to achieve a steady state using calculus-based algorithms.



#### **HIGH-SPEED COUNTING**

Interface with encoders to count pulses at extreme speeds up to 20 kHz.



#### MOTION CONTROL

Generate speeds up to 100 kHz of pulse train output.



### INSTALLATION

Capable of DIN rail mounting, offering space optimization, modularity, and enhanced safety.



### CICON SOFTWARE

Complimentary programming software used to program CM1 and CM3 PLCs.



### COMMUNICATION DRIVERS

Supports Modbus RTU/TCP, User Protocol RTU/TCP, and CIMON protocol, with built-in Ethernet and serial ports in the CPU for versatile connectivity.



CPU MODULE						
Product #	CM3-SP32MDTF-SD	CM3-SP32MDCF-SD	CM3-SP16MDTF	CM3-SP16MDCF	CM3-SP16MDRF	CM3-SP16MDRV
Software			CIC	ON		
Power			12/24 VDC,	Expandable		
Discrete Input	16, Sink/Sour	ce, 12/24 VDC	8, Sink/Sourc	e, 12/24 VDC	8, Sink/Source, 12/24 VDC	
Discrete Output	16 Sink 12/24 VDC, 0.2A/pt	16 Source 12/24 VDC, 0.2A/pt	8 Sink 12/24 VDC, 0.2A/pt	8 Source 12/24 VDC, 0.2A/pt	6 Relay 24 VDC/240 VAC, 2.0A/pt	8 Relay 24 VDC/240 VAC, 2.0A/pt
LAN	1 × 10/100 Ethernet (RJ45) -				-	
Serial	1 × RS232, 1 × RS422/485					
SD/MMC Card	1 Slot -					

DIGITAL I/O MODULE					
Product #	CM3-SP32EDO	CM3-SP32EDT	CM3-SP16EDR		
Туре	Discrete Input	Discrete Combo			
Input	32 Sink/Source 24 VDC	16 Sink/Source 24 VDC	8 Sink/Source 24 VDC		
Output	-	16 Sink 12/24 VDC, 0.2A/pt	8 Relay 24 VDC/240 VAC, 2.0A/pt		

PUSH-IN DIGITIAL I/O MODULE						
Product #	CM3-SP32EDOP	CM3-SP32EDTP	CM3-SP32EDCP	CM3-SP32EOCP	CM3-SP32EOCP	
Туре	Discrete Input	Discrete Combo		Discrete Output		
Input	32 Sink/Source 24 VDC	16 Sink/Source 24 VDC	16 Sink/Source 24 VDC		-	
Output	-	16 Sink 12/24 VDC 0.2A/pt	16 Source 12/24 VDC 0.2A/pt	32 Sink 12/24 VDC 0.2A/pt	32 Source 12/24 VDC 0.2A/pt	

COMMUNICATION MODULE						
Product #	CM3-SP02ERS	CM3-SP02ERR	CM3-SP01EET			
Туре	Se	Ethernet				
Interface(s)	1 × RS232 (DB9M) 1 × RS422/485	2 × RS232 (DB9M)	1 × RJ45 100 Mbps			
Protocols	CIMON Protocol, User Protocol RTU, Modbus Master/Slave RTU		CIMON Protocol, User Protocol TCP, Modbus Master/Slave TCP			

ANALOG I/O MODULE						
Product #	CM3-SP04EAO-A	CM3-SP08EAO-A	CM3-SP04EAA-A	CM3-SP04EOAI	CM3-SP04EOAV	
Туре	Analog Input		Analog Combo	Analog Output		
Channels	4	8	2 Input/2 Output	4	4	
Current	0-20 mA	0-20 mA	0-20 mA I/O	0-20 mA	-	
Voltage	±10 V	±10 V	±10 V I/O	-	±10 V	
Resolution	14-	-bit	16-bit	14-	-bit	
Notes	External 24 VDC Required					

DIGITAL I/O MODULE							
Product #	CM3-SP32EOT	CM3-SP32EOC	CM3-SP16EOR	CM3-SP32PWM			
Туре		Pulse-Width Modulation					
Input		-					
Output	32 Sink 12/24 VDC, 0.2A/pt	32 Source 12/24 VDC, 0.2A/pt	16 Relay 24 VDC/240 VAC, 2.0A/pt	32 Source 12/24 VDC, 0.2A/pt			

RTD & TC MODULE			SPECIAL	SPECIAL MODULE		
Product #	CM3-SP04ERO-A	CM3-SP04ETO-A	Product #	CM3-SP02HSC	CM3-SP02HSD	
Туре	RTD	TC	Туре	High-Spe	ed Counter	
Channels	4	4	Speed	200 kHz	250/500 kHz	
Sensor	PT100/JPT100/ PT1000/NI1000	K, J, E, T, B, R, S, and N	Encoder	5/12/24 VDC Source	5/24 V, HTL/RS-422A Line Drive	
Resolution	14-bit		Notes	TB32M and SC	B15M required	

# Ethercat Remote I/O



CIMON's EtherCAT Remote I/O solution assists with scalability, flexible network topology, integration, and cost-effectiveness. Increase your discrete and analog I/O count without compromising the application budget or engineering time.



### SIMPLE

Remove the complication of learning new software or integrating separate CPUs into existing applications.



### COMPATIBILITY

Generate an ESI file from CIMON's CICON software to communicate with any EtherCAT master.

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### VERSATILE I/O

Control any CIMON PLC-S discrete or analog module with an EtherCAT master.



### COST EFFECTIVE

Increase profit margins with CIMON's competitive pricing.

	REMOTE I/	O MODULE	ТҮРЕ	СОМРА
	Product #	CM3-ET10S	Discrete Input	CM3-SP
	Туре	EtherCAT Remote I/O	Discrete Output	CM3-SP
	Power	12/24 VDC	Discrete Combo	CM3-SP
LAN 2 × 10/100 Ethernet (RJ45)		2 × 10/100 Ethernet (RJ45)		
			Push-In Discrete	CM3-SP
			Push-In Discrete	CM3-SP

ТҮРЕ	COMPATIBLE I/O MODULES
Discrete Input	CM3-SP32EDO
Discrete Output	CM3-SP32EOT, CM3-SP32EOC, CM3-SP16EOR
Discrete Combo	CM3-SP32EDT, CM3-SP16EDR
Push-In Discrete	CM3-SP32EDOP
Push-In Discrete	CM3-SP32EOTP, CM3-SP32EOCP
Push-In Discrete	CM3-SP32EDTP, CM3-SP32EDCP
Analog Input	CM3-SP04EAO-A
Analog Output	CM3-SP04EOAI, CM3-SP04EOAV
Analog Combo	CM3-SP04EAA-A
RTD & TC	CM3-SP04ERO-A, CM3-SP04ETO-A

## BRICK PLC MICRO-S



CIMON's CM3 Micro-S brick PLCs are tailored for compact, standalone machine control and remote automation tasks, offering versatile communication and I/O functionalities. They can accommodate up to 36 I/O points and have built-in features, including Ethernet connectivity, high-speed counting (HSC), pulse-train output (PTO) motion control, proportional-integral-derivative (PID), and analog I/O support.

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### EMBEDDED I/O

Up to 16 discrete inputs, up to 16 discrete outputs, up to 2 analog inputs, and up 2 analog outputs. Ideal for small applications.



### COMPACT

Reduce cost and clutter in applications while offering aesthetic appeal.



#### PID

Calibrate any application apparatus to achieve a steady state using calculus-based algorithms.

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#### **HIGH-SPEED COUNTING**

Interface with encoders to count pulses at extreme speeds up to 20 kHz.



### INSTALLATION

Capable of DIN rail mounting, offering space optimization, modularity, and enhanced safety.



### **CICON SOFTWARE**

Complimentary programming software used to program CM1 and CM3 PLCs.



### COMMUNICATION DRIVERS

Supports Modbus RTU/TCP, User Protocol RTU, and CIMON protocol, with built-in Ethernet and serial ports in the CPU for versatile connectivity.



### MOTION CONTROL

Generate speeds up to 100 kHz of pulse train output.





SB16 SERIES				
Product #	CM3-SB16MDTF	CM3-SB16MDCF		
Power	12/24 VDC, Non-expandable			
Discrete Input	8 Sink/Source, 12/24 VDC			
Discrete Output	8 Sink, 12/24 VDC, 0.2A/pt	8 Source, 12/24 VDC, 0.2A/pt		
LAN	1 × 10/100 Ethernet (RJ45)			
Serial	1 × RS232, 1	× RS422/485		



SB32 SERIES							
Product #	CM3-SB32MDTF	CM3-SB32MDCF	CM3-SB32MDRF				
Power		12/24 VDC, Non-expandable					
Discrete Input		16 Sink/Source, 12/24 VDC					
Discrete Output	16 Sink, 12/24 VDC, 0.2A/pt	16 Source, 12/24 VDC, 0.2A/pt	16 Relay, 24 VDC/240 VAC, 2.0A/pt				
Analog Input		2 × Point, 0–10V, 0–20mA					
Analog Output		2 × Point, 0–10V, 4–20mA					
LAN		1 × 10/100 Ethernet (RJ45)					
Serial		1 × RS232, 1 × RS422/485					

