

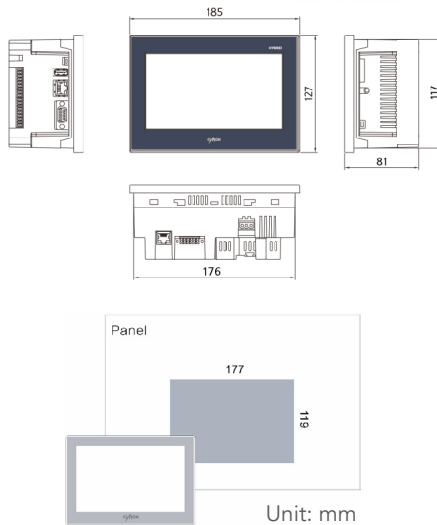
NEW

# Xpanel HYBRID

## Key Updates

- 2 Ethernet Ports
- Brighter Screen
- Longer Screen Life
- Sink / Source Available

CICON



### VESA WALL MOUNT

Get a clean and safe installation for articulating arms using the VESA mount.

### SEPARATED TERMINAL

Use both XpanelDesigner and CICON PLC software to easily connect to other devices using the built-in USB mini-B port.

### HIGH RELIABILITY

Shares reliability standards with other CICON PLC series (internal test standard).

### UNIVERSAL PLATFORM

Alarms, Historian, over 200 protocols, and more on one compact unit.

### SPEED

- Max 32 PID loop control.
- Equipped with 20 kHz (kpps) high-speed counter.
- 2-axis servo control embedded.

## Specifications

Model	CM-sHP07CD-DR	CM-sHP07CD-DT	CM-sHP07CD-DC
Rated Voltage	24VDC (0.46 A)	24 VDC (0.33 A)	
Resolution	WVGA 800x400		
Backlight	LED		
Luminance	600 cd/m <sup>2</sup>		
Backlight Life	50,000 hours		
Touch Panel	4 wire resistive		
Memory	128 MB DDR2		
Storage	128 MB SLC NAND Flash		
SD Card	1 SD slot		
Comm. Ports (HMI)	1 Ethernet (10/100 Base-T), 1 Serial (internal), 1 Serial (RS-232C/422/485)		
Comm. Ports (PLC)	1 Ethernet (10/100 Base-T), 1 Serial (internal), 1 Serial (RS-232C), 1 Serial (RS-422/485)		
USB 2.0 Host	1 port		
Tool Port (HMI + PLC)	1 USB mini-B		
Audio	1 port		
Output (PLC)	Relay output 8 pts	TR output (SINK) 7 pts	TR output (SRC) 7 pts
Input (PLC)	TR input 8 pts		
Max. I/O + Expansion	94 pts / 1 option module + 2 PLC-S modules		
OS	Windows CE 6.0		
Weight	0.85 kg (1.87 lbs)		

### Environmental Conditions (All Models)

Operating Temperature	0-60°C
Operating Humidity	10-90% RH, No condensation
Vibration Resistance	JIS B 3502, IEC/EN 61131-2 compliant
Shock Endurance	JIS B 3502, IEC/EN 61131-2 compliant
Noise Immunity	Impulse, EFT/Burst, Surge, ±2 kV, 1 μs
Ambient Conditions	Avoid corrosive gas and excessive dust
Operating Altitude	≤ 2000 m
Pollution	≤ 2
Cooling	Natural air cooling

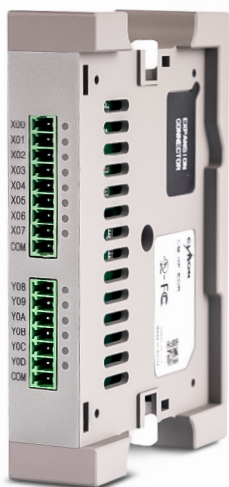
## Specifications



CM-HP-DM



CM-HP-EAA



CM-HP-EDR

Embedded PLC-S (All Models)		
Program Language	Ladder Diagram (LD), Instruction List (IL), Sequential Function Chart (SFC), Function Block Diagram (FBD)	
Data Processing Method	32-bit	
Instructions	Sequence: Approx. 60 Instructions Application: Approx. 480 Instructions	
Processing Speed	300 ns/Step	
No. of Program Blocks	Max. 128	
Operation Mode	Remote (Run, Stop)	
Backup Method	K Device and Conservation (Latch) in M, L, T, C, S, D device	
Program Type	Scan, Subroutine, Periodic Interrupts, Special, Initialization	
Self-Diagnosis	Monitor Scan Time Delay, Errors in Memory, I/O, Battery & Power	
Etc.	Floating Point Arithmetic, Online Edit	
RTC	Embedded (Battery CR2032 Backup)	
Program Capacity	10k Steps	
High Speed Counter	Maximum Count Speed 20 kHz (Maximum 5 kHz When Using 2 phase 2 ch)	
PID	32 ch Auto-Tuning	
Positioning	2-Axis, 2 ch, Maximum 100 kHz	
Data Memory	X	1024 pts (X0000-X063F)
	Y	1024 pts (Y0000-Y063F)
	M	8192 pts (M0000-M511F)
	L	4096 pts (L0000-L255F)
	K	4096 pts (K0000-K255F)
	F	2048 pts (F0000-F127F)
	T	512 pts (T0000-T0511)
	C	512 pts (C0000-C0511)
	S	100 states x 100 set (00.00-99.99)
D	10000 words (D0000-D9999)	
Z	1024 words (call stack : Z0000-Z0063, Z1000-Z1063)	
R	16 pts (index)	

## Modules

Expansion Modules (PLC-S)	
CM-HP-DM	sHP07 dummy, for protection of Hybrid expansion port, or expansion to PLC-S modules
CM-HP-EAA	Analog module for sHP07 (AI 2 Ch, AO 2 Ch) (0-5 V, 1-5 V, 0-10 V, -10-10 V, 0-20 mA, 4-20 mA)
CM-HP-EDR	Digital module for sHP07 (DI 8 pts [TR Sink/Source], DO 6 pts [relay])