



Product for Field Test

Newsletter Date: 17.09.2025

1. Product Introduction: QP series PLC(Q0P and Q1P)

BRAND-NEW APPEARANCE DESIGN

Powered by HCFA Design, Crafted in Canon White

Expandable Dual-Slot Design
RTC, CAN, RS485, RS232 & Beyond

Easy Installation
Detachable PUSH IN latching terminals for efficient equipment

Dual Switch-Style Ethernet Ports
Two-port EtherNet (Unified IP management & Built-in switching functionality)

POWER UP, COMPACT DOWN!

Model	Performance Increase
New Q1P vs Previous Q1	1.5x!
New Q0P vs Previous Q0	2x!

• Q1P volume is reduced to less than half of the original Q1.

SIMPLIFIED WIRING RAPID ASSEMBLY COST EFFICIENCY

SPACE SAVING 40%

QP Series Controller 730W Servo

Multi-Protocol / High Integration

Supported Interfaces: 2x RS485, 2x Ethernet, 1x EtherCAT, dual BD slots, 1x Type-C and right-side expansion modules (compatible with HCQX-D4 modules)

Supported Protocols: Tag communication, OPC UA Server, TCP, UDP, HTTP and MQTT

Flexible & Diverse Motion Control

8-axis 200 kHz pulse outputs | 8-channel 200 kHz pulse inputs | 8/16 bus axes

Supported Complex Motion Control: Single-axis position/-speed/torque control, electronic cam, axis grouping, and CNC

Performance / Capacity Upgrade

Dual-core high-performance processor featuring a 1.5x generational performance boost

128MB program + 128MB data storage, featuring 1M persistent data memory.

Easy Programming / Easy Debugging

Newly Developed IDE – HCP Works 3: Graphical, list-based, modular programming

Built-in servo parameter debugging interface with online downloading and offline simulation support





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2. Product Specifications

2.1 Naming rules

HCQ5P-1500-U4-****

1	2	3	4	5	6	7	8	9	10
1. Product Name HC: HCFA			4. Operating System 1: Linux			6. Control Software Module 0: CODESYS		9. Product Iteration Serial Number 4	
2. Product Series Q5: Basic network motion controller Q1: General-Purpose bus motion controller Q3: Standard bus motion controller Q5: Basic high-speed mechanical controller Q7: Standard intelligent mechanical controller Q9: Premium flagship mechanical controller			5. Internal Code n: Reserved			7. Additional Functionality Module 0: Standard software		10. Controlled Version Number & Non-standard Specifications *	
3. Model Type None: Standard type P: Enhanced type			5. Internal Code 5			8. Power Supply Type U: UPS power supply D: DC power supply			

2.2 QP Product Series Comparison

Model	HCQ0P-1200-D4	HCQ1P-1300-D4	HCQ3P-1400-D4	HCQ5P-1500-U4	HCQ7P-1600-U4	HCQ9P-1700-U4
Processor	ARM			Celeron	Intel i5	Intel i7
Hard Disk/RAM	8G/512M			64G/2G	64G/8G	64G/8G
Program capacity	128 MBytes					
Persistent data memory	1 MBytes			6 MBytes		
EtherCAT axis capacity (1ms)	8 axes	16 axes	32 axes	32 axes+32 axes	64 axes+64 axes	128 axes+128 axes
Pulse axis	8 axes					
Onboard I/O	16-channel input & 16-channel output					
Right-Side expansion (output power)	16W					
Power supply module	No UPS required, 24V DC input			UPS module required: HCQX-PD11-D4 (DC 24V), HCQX-PD11-A4 (AC 220V)*1		
Ethernet port	100Mbps*3		1000Mbps*2 + 100Mbps*1	1000Mbps*3 + 100Mbps*1		
Monitoring protocol download	Supported					
EtherNet/IP	Scanner & Adapter modes supported					
Modbus TCP/IP	Server/Client modes supported					
OPC UA	Server mode supported					
EtherCAT	1 Port			2 Ports		
CANopen	1 Port (Optional card)		1 Port			
Serial port	2 RS485 ports		2 RS485 ports + 1 RS232 port			
USB	1 Type-C port		1 USB 2.0 port + 1 Type-C port			
SD card	1 Port					
Programming software	HCP Works3					
Programming language	LD, ST, SFC, CFC, FBD					

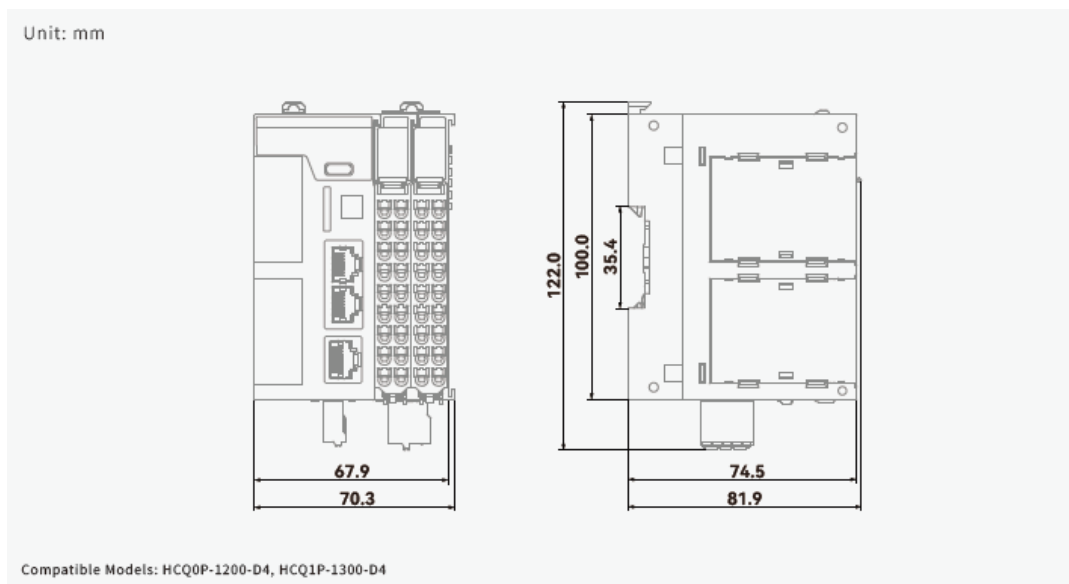
¹ This model will be released in subsequent launches.





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2.3 Drawings



3. Release Model:

PLC	Model	Max. order quantity
QP series PLC	HCQ0P-1200-D4	10
	HCQ1P-1200-D4	10

