

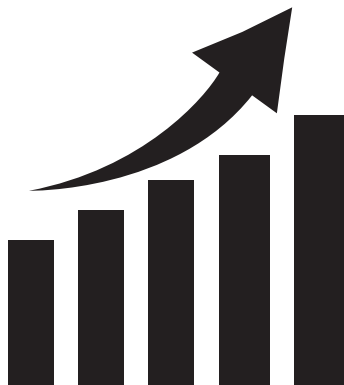
Universal Modular Controller

Melsec Q Series

PRODUCT FLYER



The Melsec Q Series modular controller offers incredible performance and versatility. With multiple CPU configuration and a wide range of memory capacities, the best-fit control system can be achieved and expanded as required. The Q Series I/O and intelligent function module lineup is extensive. Available modules include motion control, serial communication, temperature control, digital and analog I/O modules, channel isolated analog modules and advanced networking options.



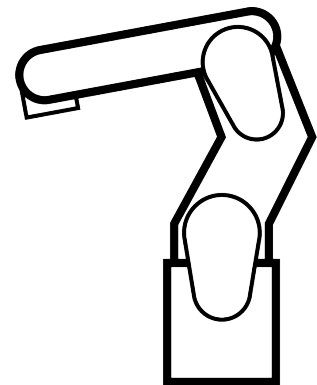
Scalable

All Melsec system Q PLC processors are interchangeable, which means processing power can be increased as applications grow. Also motion, robot and CNC CPU's can be combined to configure a scalable and highly flexible modular automation system.



Multi-processor Support

Up to four separate CPUs can be placed in a single system. These can be used to control their own set of dedicated tasks or for sharing the processing and control load. Making the total system highly responsive.



Robot and CNC CPUs

Robot and CNC controllers combine faster processing speed and enhanced motion control. Providing superior flexibility and performance when designing motion and robot automation systems.

Features

- » GX Works2 user-friendly programming software
- » Up to 8192 including remote I/O
- » Multi-processor technology
- » Easy installation
- » Up to 4096 local I/O
- » Scalable platform
- » Communications options
- » Flexible
- » Seamless integration

SPECIFICATIONS

Type		Model	Description	
CPU model	High-speed universal model QCPU	Q□□UDVCPU	4096 points, 8192 I/O device points, program capacity: 30 K - 260 K steps, program memory capacity: 120 KB - 1040 KB, connection ports: USB, Ethernet (predefined protocol support function), memory card I/F: SD memory card and extended SRAM cassette CC-Link IE field network basic compatible	
	Process CPU	Q□□PHCPU	4096 points, 8192 I/O device points, program capacity: 28 K - 252 K steps, program memory capacity: 112 KB - 1008 KB	
	Redundant CPU	Q□□PHRCPU	4096 points, 8192 I/O device points, program capacity: 124 K - 252 K steps, program memory capacity: 496 KB - 1008 KB	
	C controller CPU	Q□□D□CPU□□	4096 points, SD card or compact flash card	
Options	Battery	Q□BAT	Replacement battery / large-capacity battery	
	Memory card	Q□□□	SD, SRAM, extended SRAM cassette, or compact flash card up to 16 GB	
	Main base	Q3□□B	3 - 12 slots	
	Main base	Multiple CPU high speed	Q3□□DB	5 - 12 slots
	Extension base	Q□□□B	3 - 12 slots	
	Extension cable	QC□□□B	0.45 - 10 m cable for connecting extension base unit	
	Power supply	Q6□P□	Input voltage: 100...240 V AC or 24 V DC, output voltage: 5 V DC or 5/24 V DC	
I/O module	Input	AC	QX□□	8 - 16 points, 100...240 V AC
		DC positive common	QX4□□□	16 - 64 points, 24 V DC
		AC/DC	QX50	16 points, 48 V AC/DC
		DC sensor	QX7□□	16 - 64 points, 5/12 V DC
		DC negative common	QX□□□□	16 - 64 points, 24 V DC
	Output	Relay	QY1□□□	16 points, 24 V DC/240 V AC
		Triac	QY22	16 points, 100...240 V AC
		Transistor (sink)	QY□□□	16 - 64 points, 12...24 V DC
		Transistor (independent)	QY68A	8 points, 5...24 V DC, sink/source type
		Transistor (source)	QX8□□□	16 - 64 points, 12...24 V DC
I/O	Combination module	QX4□□	8 - 32 points input, 24 V DC, 7 - 32 points output, 12...24 V DC, sink type	
Analog I/O module	Analog input	Voltage input	Q68ADV	8 channels, input: -10...10 V D
		Current input	Q6□AD□□	2 - 8 channels, input, 4...20 mA DC
		Voltage/current input	Q6□AD□	4 - 8 channels, input -10...10 V DC, 0...20 mA DC, output
	Analog output	Voltage output	Q68DAVN	8 channels
		Current output	Q68DAIN	8 channels
		Voltage/current output	Q62□DA□□	4 - 6 channels
	Analog input/output	Voltage and current I/O	Q64AD2DA	I/p 4 ch, -10 - 10 V DC, 0...20 mA DC, o/p: 2 ch, -10 - 10 V DC, 0 - 20 mA DC
	Temperature input	Thermocouple	Q6□TD□□	4 - 8 channels, thermocouple (B, R, S, K, E, J, T, N)
		RTD	Q6□RD□□	4 - 8 channels, platinum RTD (Pt100, JPt100)
	Temperature control	Thermocouple	Q6□TC□□□□	4 ch, thermocouple (K, J, T, B, S, E, R, N, U, L, PL@, W5Re/W26Re)
RTD		Q6□TCRT□□□	4 channels, platinum RTD (Pt100, JPt100), heating - cooling control	
Loop control		Q62HLC	2 ch, i/p: thermocouple/micro voltage/voltage/current, o/p: 4 - 20 mA DC, with 5 PID control modes	
Positioning module	Simple motion	With CC-Link IE field	QD77GF□□	4 - 6 axes, 2-/3-/4-axis linear interpolation, 2-axis circular interpolation
		With SSCNET #/H	QD77M□□	2 - 16 axes, 2-/3-/4-axis linear interpolation, 2-axis circular interpolation
	Differential output	Open collector output	QD7□P□□	1 - 8 axes, 2-/3-/4-axis linear interpolation, 2-axis circular interpolation, 3-axis helical interpolation
		Differential output	QD75D□□	2 - 4 axes, 2-/3-/4-axis linear interpolation, 2-axis circular interpolation
High-speed counter		QD62□□	2 - 8 ch, 200/100/10 kpps, count i/p signal: 5/12/24 VDC, external i/p: 5/12/24 VDC	
Network module	Ethernet	QJ71E71-100	10BASE-T/100BASE-TX	
	CC-Link IE control network	QJ71GP21□□-SX	Multi-mode fiber optic cable, dual loop, control network	
	CC-Link IE field network	QJ71GF11-T2	Master/local station, CC-Link IE field network compatible	
	CC-Link	QJ61BT11N	Master/local station, CC-Link ver. 2 compatible	
	MODBUS®	QJ71MB91	MODBUS® RTU/ASCII, RS-232, RS-422/485 configurable as master or slave	
	MODBUS®	QJ71MT91	MODBUS®/TCP 10BASE-T/100BASE-TX configurable as master or slave	
	Ethernet/IP®	QJ71EIP71	Ethernet/IPTM tag communication compatible	
	PROFIBUS®-DP	QJ71PB9□V	PROFIBUS® system compatible, DP master/slave	
	DeviceNet®	QJ71DN91	DeviceNet® system compatible, master/slave	
	AS-i	QJ71AS92	Master station, AS-interface specification version 2.11 compatible	
Serial communication		QJ71C24N□□	RS-232 or RS-422/485, 1/2 ch, RS-422/485: 1 channel, MODBUS® RTU master	

Catalogue

https://bit.ly/Melsec_Q_Series

e-Learning

<https://www.mitsubishielectric.com/fa/assist/e-learning/eng.html>

For further information contact



Email: iasw@meaust.meap.com
Website: MitsubishiElectric.com.au