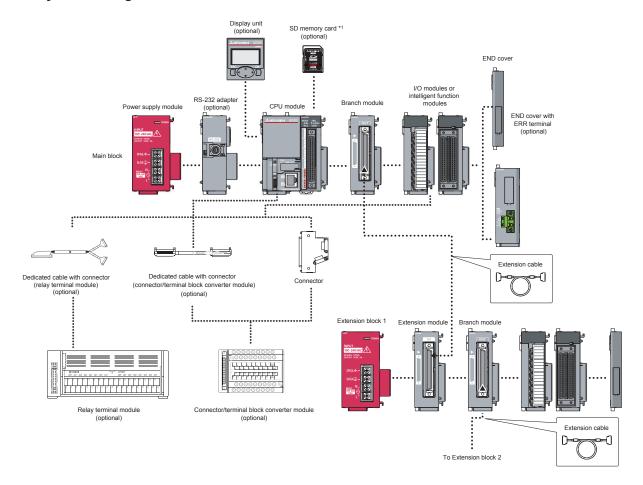
L Series System Configuration



L Series CPU Modules

Key Features:

- Flexible rack-free modular design
- All-in-one CPU with built-in Ethernet, and positioning I/O functions
- Up to 260K Step memory
- As low as 9.5ns instruction processing
- 24 points of built-in I/O
- Built-in data logging capabilities
- Commonly available SD/SDHC memory media
- Expansion capabilities for I/O, Analog, Communication, and Motion/Positioning
- Integration into iQ Works and GX Works2 next generation software

CPU Specifications

Model Number		L02CPU • L02CPU-P	L06CPU • L06CPU-P	L26CPU • L26CPU-P	L26CPU-BT • L26CPU-PBT	
Stocked Item		S	S	S	S	
Certification		UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	
Processing Speed	LD Instruction	40ns 9.5ns				
	MOV Instruction	80ns	19ns			
Program Capacity		20k steps	60k steps	260k steps		
Memory Capacity	Program Memory (Drive 0)	80 kB	240 kB	1040 kB		
	Standard RAM (Drive 3)	128 kB	768 kB	768 kB		
	Standard RAM (Drive 4)	512 kB	1024 kB	2048 kB		
Maximum Number of Files	Program Memory	64 programs	124 programs	252 programs		
	Standard RAM	4 files (file register file, local device file, sampling trace file, and module error collection file)				
	Standard ROM	128 files	256 files	256 files		
Memory Card Type		SD/SDHC				
Max. Number of Intelligent Function	Initial Setting	2048	4096	4096		
Module Parameter Settings	Refresh	1024	2048	2048		
5VDC Internal	With Display Module	1.00A	1.06A	1.06A	1.43A	
Current Consumption	Without Display Module	0.94A	1.00A	1.00A	1.37A	
Max. I/O Device Points		8192 points (X/Y0 to X/Y1FFF)				
Max. Physical I/O Points		1024 points (X/Y0 to X/Y3FF) 4096 points (X/Y0 to X/YFFF)				
Built-in CC-Link		No	No	No	Yes	
Weight (kg)		0.37			0.47	
Dimensions (W x H x D) mm		70 x 90 x 95			98.5 x 90 x 95	

CPU Built-In Input Specifications

Standard Input	Number of Input Points	10 points
	Rated Input Voltage	24VDC (+20%/-15%, ripple ratio within 5%)
	Rated Input Current	4.1mA TYP. (at 24VDC)
	Minimum Input Response Speed	100μs
	Input Response Time Setting	0.1ms/1ms/5ms/10ms/20ms/70ms
	Number of Input Points	6 points
High-Speed Input	Rated Input Voltage	24V input: 24VDC (+20%/-15%, ripple ratio within 5%) Differential input: EIA Standard RS-422-A differential type line driver level
	Rated Input Current	24V input: 6.0mA TYP. (at 24VDC) Differential input: EIA Standard RS-422-A differential type line driver level
	Minimum Input Response Speed	10µs
	Input Response Time Setting	0.01ms/0.1ms/0.2ms/0.4ms/0.6ms/1ms

CPU Built-In Output Specifications

Model Number		L02CPU • L06CPU	L26CPU • L26CPU-BT	L02CPU-P • L06CPU-P	L26CPU-P • L26CPU-P	
Output Type		Sink Transistor		Source Transistor		
Number of Output Points		8 points				
Rated Load Voltage		5 to 24VDC 0.1A				
Roenanco Timo	OFF – ON	1μs or less (rated load, resistive load)				
	ON – OFF	1µs or less (rated load, resistive load)				

CPU Built-In I/O – Positioning Function Specifications

Number of Control Axe	S		2 axes	
Control Unit			Pulse	
Positioning Control	Positioning Control Method	PTP Control (*1)	INC system, ABS system	
		Speed-Position Switching Control	INC system	
	Positioning Control Range	PTP Control (*1)	-2147483648 to 2147483647 pulse	
		Speed-Position Switching Control	0 to 2147483647 pulse	
	Speed Command		0 to 200kpulse/s	
	Acceleration/Deceleration System Selection		Automatic trapezoidal acceleration/deceleration and S-pattern acceleration/deceleration	
	Acceleration/Deceleration Time		0 to 32767ms	
Starting Time (1-Axis I	Starting Time (1-Axis Linear Control)		Trapezoidal acceleration/deceleration (1-axis start): 30µs/axis S-pattern acceleration/deceleration (1-axis start): 35µs/axis	
	Pulse Output Method		Open collector output (5 to 24VDC), sink or source logic	
Command Pulse	Maximum Output Speed		200kpulse/s	
Output	Maximum Connection Distance from Drive Unit		2m	
	Zero Signal		24VDC 6mA Equivalent with differential driver 20mA	
	Speed-Position Switching Signal		DC24V 4.1mA	
	Near-Point Dog Signal			
External Input	Upper and Lower Limit Signal			
	Drive Unit READY Signal			
	Minimum Input Response Time		Zero signal: 10µs Speed-position switching signal, near-point dog signal: 100µs Upper and lower limit signal, drive unit READY signal: 2ms	
	Deviation Counter Clear Signal		ADY signal: 2ms External output; Deviation counter clear signal, sink or source logic	
External Output	Response Time OFF - ON ON - OFF		1μs or less (rated load, resistive load)	

Note 1: The abbreviation for Point To Point, referring to position control.

CPU Built-In I/O – High Speed Counter Specifications

Number of Channels			2ch
Count Input Signal	Phase		1-phase input (multiple of 1/2), CW/CCW, 2-phase input (multiple of 1/2/4)
	Signal Level	24V Input	24VDC 6mA
		Differential Input	EIA Standard RS-422-A differential type line driver level (Equivalent with AM26LS31 (manufactured by Texas Instruments Japan Limited))
	Maximum Counting Speed		200kpulse/s (1-phase multiple of 2, 2-phase multiple of 4)
	Counting Range		Binary with 32-bit code (-2147483648 to 2147483647)
	Туре		UP/DOWN preset counter (+ ring counter function)
Counter	Minimum Count	Phase 1	5μs
	Pulse Width (Duty Ratio 50%)	Phase 2	10µs
	Minimum Phase Differential for 2-Phase Input		5µs
Cainaidanaa Outuut	Comparison Range		Binary with 32-bit code (-2147483648 to 2147483647)
Coincidence Output	Comparison Result		Set value < Count value; Set value = Count value; Set value > Count value
	Phase Z (Preset)	24V Input	Open collector; 24VDC 6mA
		Differential Input	EIA Standard RS-422-A differential type line driver level (Equivalent with AM26LS31 (manufactured by Texas Instruments Japan Limited))
External Input	Function Start Latch		24VDC 4.1mA
	Minimum Input Response Time		Phase Z: 10µs Function start, latch: 100µs
	Comparison Output		2 points/ch
Futamal Outant	Output Voltage/Current		5 to 24VDC 0.1A
External Output	Output Response Time	OFF – ON ON – OFF	1µs or less (rated load, resistive load)
	Output Frequency Range		DC to 200kHz
PWM Output	Minimum ON Width		1μs
	Duty Ratio		ON time can be set in increments of 0.1µs.
Dulas MCAN	Measurement Item		Pulse width (ON width: 200µs or more, OFF width: 200µs or more)
Pulse Width Measurement	Measurement Resolution		5μs
weasurement	Measurement Points		1 point/ch

CPU Built-In Ethernet Port Specifications

Transmission Specification	Data Transfer Speed		100/10Mbps			
	Communication Mode		Full-duplex/Half-duplex			
	Transmission Method		Base band			
	Maximum Distance Between Hub and Node		100m			
	Maximum Number of Connectable Nodes	10BASE-T	Maximum of cascading hub connections			
		100BASE-TX	Maximum of 2 cascading hub connections			
Number of	TCP/IP		Total of 16 for socket communications, MELSOFT connections, and MC protocol (*1). One for FTP			
Connections	nnections UDP/IP		Total of To for socket communications, welsor i connections, and wic protocol (1). One for FTP			
Cable to Use For 10BASE-T Connection		nnection	Cables compliant to Ethernet standards, category 3 or higher (STP/UTP cables) (*3)			
(*2)	For 100BASE-TX Connection		Cables compliant to Ethernet standards, category 5 or higher (STP cables)			

- Notes:
 1. Only 3E frames may be used.
 2. Straight through cable. Also, CPU is connected directly with a GOT, a cross cable may be used.
 3. The use of STP (Shielded Twisted Pair) cables is recommended in noisy environments.