

X10FF IT16
4145
FEDCBA9876543210

Device monitor

p 32569p1s
v 128000pps
DATA No. ABSENT
ERR CODE ABSENT

Built-in I/O monitor

No. 4100 1/3
OPERATION ERROR
2009/12/22
14:30:12

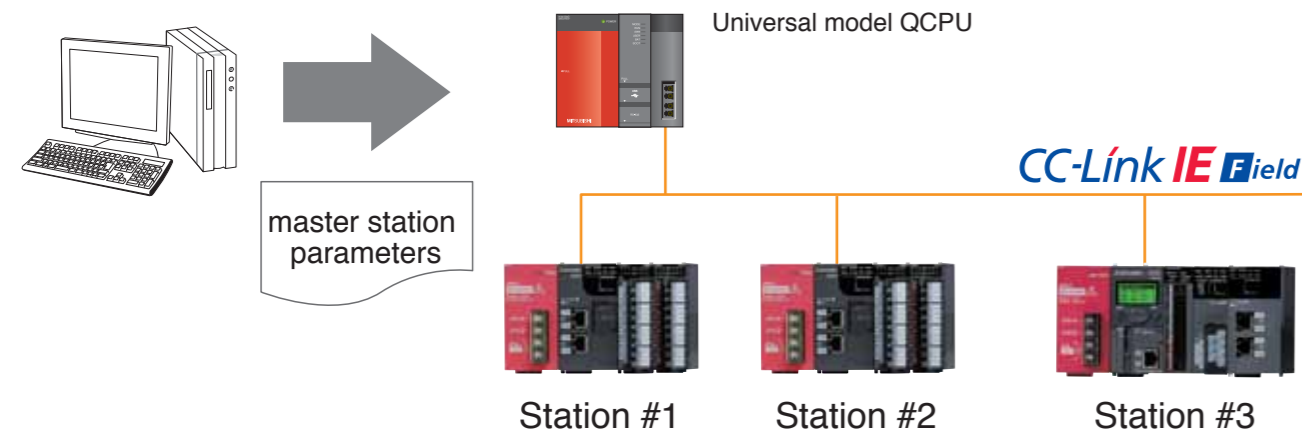
Error message display
(Red backlight)

Feature rich and easy to use display

Check the system status and make setting changes directly from the display. Error status is clearly identified and troubleshooting and error investigation can be performed all without the need for any connections or engineering software.

- Instant error information check
- Intuitive menu navigation
- Multilingual operation

Remote I/O station on CC-Link IE Field



Increase productivity and lower the total cost of ownership.

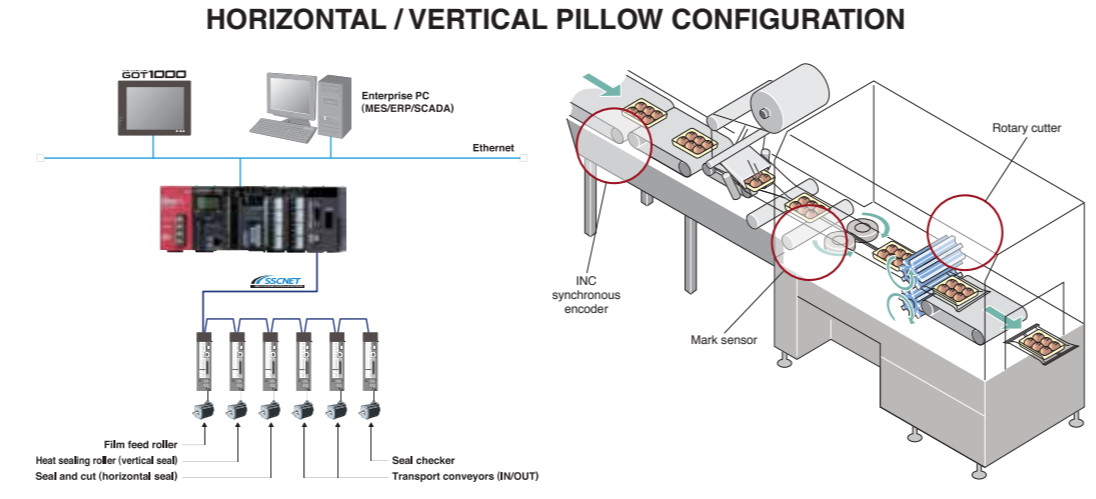
Introducing the next generation of IA programming software:

GX Works2

GX Works2 focuses on driving down total cost by including features that speed up commissioning, reduce downtime, improve programming productivity, and provide strong security.

- User interface that is "easy to use" by design
- Offline debug without physical hardware
- Integrating the intelligent function module setting tool (GX Configurator)
- Advanced PLC diagnostics
- Time-stamped error history list
- Support iQ Works
- Function blocks for common operation

HORIZONTAL / VERTICAL PILLOW CONFIGURATION



Cam resolution
Sheet length
Sheet synchronisation width
Synchronous axis length

HMI (GOT)
Input

Sheet length
Sheet synchronisation width

Speed
Time

Cam data
Sheet synchronisation width

Stroke ratio
Time

Synchronous encoder with synchronous control

Input pulses from a synchronous encoder can be used to perform synchronous control and cam control.

Standard mark detection function

The built-in mark detection signal interface allows these units to be used in packaging systems for example, without additional option modules.

Automatic cam data generation for rotary cutter


Complicated cam data for rotary cutters can be automatically generated just by specifying a few parameters like the sheet length and synchronization width.

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MITSUBISHI ELECTRIC
Changes for the Better
Programmable Controllers
MELSEC-L series

for a greener tomorrow 

Little on size, Large on performance

The new L series has a small footprint and is loaded with features.



MELSEC *L* series

Compatible with Windows® 7

CPU

CPU	L02SCPU
	L02CPU
	L02CPU-P
	L06CPU
	L26CPU
	L26CPU-BT
CPU packages	L26CPU-PBT
	L02CPU-SET
	L02CPU-P-SET
	L06CPU-SET
	L26CPU-SET
	L26CPU-BT-SET
	L26CPU-PBT-SET

Network

Network module	CC-Link IE Field Network	LJ71GF11-T2 LJ72GF15-T2
	CC-Link	LJ61BT11
	CC-Link/LT	LJ61CL12
	Ethernet Interface	LJ71E71-100
	Serial communication	LJ71C24 LJ71C24-R2

Analog

Analog I/O module	Analog input	L60AD4 L60AD4-2GH
	Analog output	L60DA4
Temperature Control module	Thermocouple	L60TCTT4 L60TCTT4BW
	RTD	L60TCRT4 L60TCRT4BW

Digital I/O

I/O module	Input	AC	LX10 LX28	
		DC (Positive or negative common)	LX40C6 LX41C4 LX42C4	
			Relay	LY10R2
			Triac	LY20S6
		Output	Transistor (Sink)	LY40NT5P LY41NT1P LY42NT1P
				Transistor (Source)



High-speed CPU

Program Memory	260 k steps**4	Maximum number of I/O points	8192 points
Basic operation processing speed	9.5 ns*3	Floating-point operation	0.057 μs
		MOV instruction	19 ns

L series raises the bar for performance specifications in a compact programmable controller with 260k steps of program memory and a basic operation processing time of just 9.5 nanoseconds.

Display unit

Multi-lingual Display	English / Japanese
Display Size	16 characters x 4 lines
Multi-color Backlight	Green/normal, Red/error

The display unit allows for quick troubleshooting and diagnostic operations of the CPU and connected modules.

Built-in I/O Features

Positioning	High-speed Counter	Pulse Catch
Interrupt Input	General Purpose I/O	

Every L series CPU module comes with 24 points of built-in I/O that support advanced features to meet challenges head-on.

Simple Motion Modules

Positioning	Speed Control	Torque Control
16-Axis Interpolation	Synchronous Control	Auto cam generation function

Control sophisticated motion applications with ease using proven and innovative features.

Built-in Connectivity

Ethernet	USB	SD Memory Card
CC-Link Ver.2.0**2		

Convenient communication options and memory card storage are included with every CPU.

Software

GX Works2	IQ Works	GX LogViewer
MX Component	MX Sheet	

L series is compatible with the latest and most advanced programmable controller engineering software from Mitsubishi.

How to read the product code

L 26 CPU - P BT - SET

①	Program memory capacity	02 26	20k steps 260k steps
②	Type of module	CPU	CPU module
③	Built-in I/O output format	Blank P	Sink type Source type
④	Built-in CC-Link function	Blank BT	— ✓
⑤	Product set	Blank SET	— Set includes a power supply module (L61P) and display unit (L6DSPU)

Accessories

Branch / Extension module	L6EXB	
	L6EXE	
	LC06E	
	LC10E	
Extension cable	LC30E	
	L61P	
	L63P	
Power supply	L6ADP-R2	
RS-232 adapter	L6ADP-R2	
END cover with error terminal	L6EC-ET	
CPU options	Display unit	L6DSPU
	Battery	Q6BAT
		Q7BAT-SET
		Q7BAT
	SD Memory Card	L1MEM-2GBSD
L1MEM-4GBSD		

Accessories

Connector	A6CON1
	A6CON2
	A6CON3
	A6CON4
Connector/terminal block convertor module	A6TBXY36
	A6TBXY54
	A6TBXY70

Simple Motion/Positioning



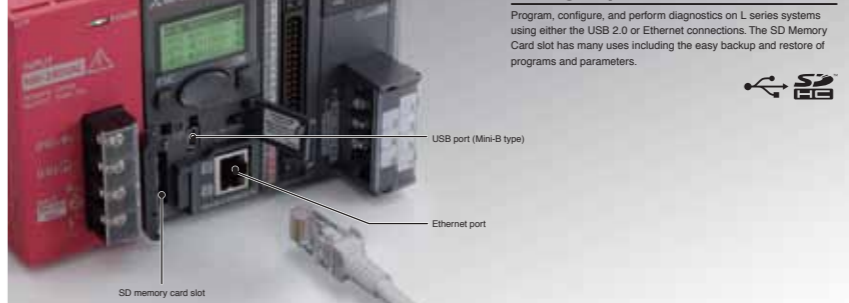
- Built-in CPU positioning control function
- Highly accurate measurements with a resolution of 5μs
- High precision PWM control up to 200 kHz
- Guaranteed input pulse detection
- Countless application
 - Positioning control – X-Y Tables,
 - Speed control and torque control - winding and rewinding,
 - Cam control
- Simplified debugging and commissioning

Data logging function



- Easy logging without a program
- Logging of control data variances at very high speed
- Auto logging function
- Automatically send logging files to FTP server
- Trigger logging function
- GX LogViewer for Visualizing the production process

Convenient communication and storage options come standard



Program, configure, and perform diagnostics on L series systems using either the USB 2.0 or Ethernet connections. The SD Memory Card slot has many uses including the easy backup and restore of programs and parameters.

- USB and Ethernet connections standard
- Easy connection through hub
- Precise time synchronisation
- Program-less device data transfer
- SD Memory Card special features - Save/load programs directly into the Programmable Controller

CPU module specifications

Item	L02SCPU NEW	L02CPU L02CPU-P	L06CPU NEW	L26CPU NEW	L26CPU-BT L26CPU-PBT	
Control method	Stored program repeat operation					
I/O control mode	Refresh mode (Direct mode is available by specifying the direct access input/output (DX, DY).)					
Programming language (sequence control language)	Function block, relay symbol language, MELSP3 (SFC), MELSP-L, structured text (ST), logic symbolic language					
Processing speed**1	LD X0 60ns	40ns	9.5ns	9.5ns	19ns	
MOV DD D1 (sequence instruction)	120ns	80ns	19ns	19ns	19ns	
Constant scan	0.5 to 2000ms (Setting is available in increments of 0.5ms by parameter.)					
Program size	20k steps (80k bytes)	60k steps (240k bytes)	240k bytes	260k steps (1040k bytes)	1040k bytes	
Memory capacity	Program memory (drive 0)	80k bytes	240k bytes	1040k bytes	1040k bytes	
	Memory card (RAM) (drive 1)	—	—	—	—	
	Memory card (ROM) (drive 2)	—	—	—	—	Depends on the SD/SDHC memory card used.*2
	Standard RAM (drive 3)	—	128k bytes	—	768k bytes	—
Maximum number of files stored	Standard ROM (drive 4)	—	512k bytes	1024k bytes	2048k bytes	
	Program memory	—	64 files	124 files	252 files	
	Memory card (RAM)	—	—	—	—	
	Memory card (ROM)	—	—	—	—	Root directory: 511 files (maximum) Subdirectory: 65533 files (maximum)
Maximum number of intelligent function module parameters	SD	—	—	—	Root directory: 65534 files (maximum) Subdirectory: 65533 files (maximum)	
	SDHC	—	—	—	—	
Maximum number of modules specification**3	—	—	—	—	40	
Built-in I/O function	—	—	—	—	Built-in I/O - 16 inputs/8 outputs	
Data Logging function	—	—	—	—	Yes, refer to the Data Logging function specifications	
Built-in Ethernet function	—	—	—	—	Yes, refer to the built-in Ethernet specifications	
Built-in Serial Communication function	—	—	—	—	Refer to the Built-in Serial Communication specifications	
Built-in CC-Link function	—	—	—	—	Refer to the CC-Link Master/Local Module specifications.	