

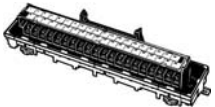

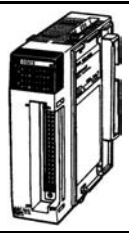
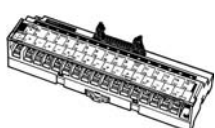

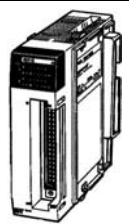
# Peripheral Devices

## Labor-saving Connectors

Converts the wiring of the 32-point I/O Unit connector into a terminal block, simplifying wiring and reducing the amount of wiring within the panel.


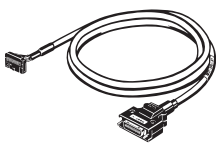
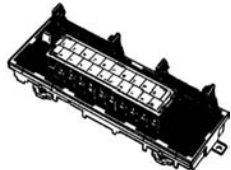

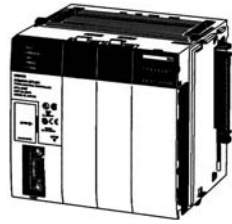
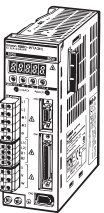
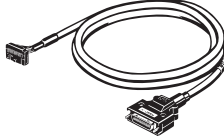
### Units with I/O Connectors

#### ■ Cables and Connectors

Connector/Terminal Conversion Unit	Connecting Cable	PLC Unit	
XW2B-40G5 XW2B-40G4 	XW2Z-□□□B 	CQM1-ID213 CQM1-ID214 CQM1-OD213 CQM1-OD216	
XW2C-20G5-IN16 (see note) 	XW2Z-□□□D 	CQM1-ID213 CQM1-ID214	

**Note:** This Unit is for an Input Unit only, with LED input indicators and NPN inputs.

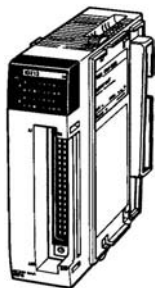
#### ■ Servo Relay Unit and Cables

Servo Driver	Connecting Cables	Servo Relay Unit	Relay Cable	PLC CPU Unit
SMART STEP  R7D-AP□□□	XW2Z-□□□J-B5 	 XW2B-20J6-3B	 XW2Z-□□□J-A3	 CQM1H-CPU61/51 (CQM1H-PLB21)
W-series  R88D-WT□□□□	XW2Z-□□□J-B4 			

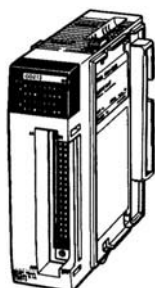
# Peripheral Devices

## Labor-saving Connectors CQM1-ID/OD

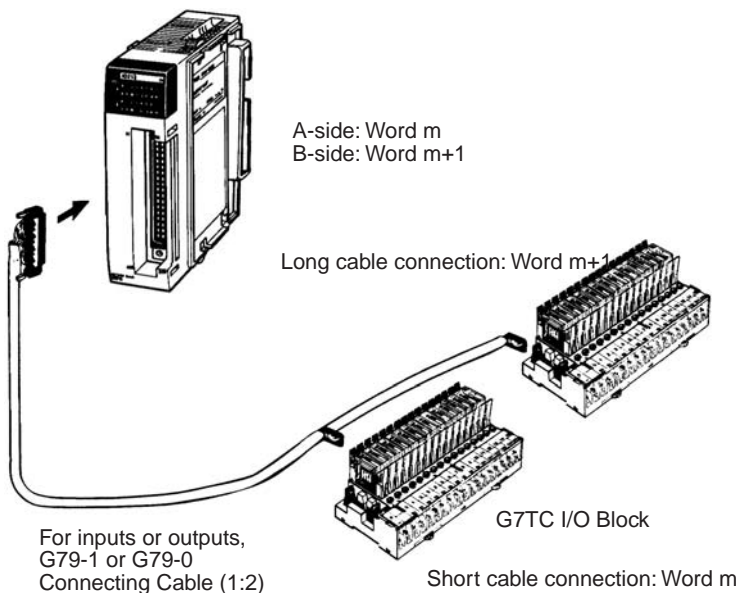
### I/O Blocks and Cables



CQM1-ID213/214



CQM1-OD213



### Cables with Connectors

Each Cable connects to two I/O Blocks.

Model		Length (mm)	
For inputs	For outputs	Long	Short
G79-I100C-75	G79-O100C-75	1,000	750
G79-I150C-125	G79-O150C-125	1,500	1,250
G79-I200C-175	G79-O200C-175	2,000	1,750
G79-I300C-275	G79-O300C-275	3,000	2,750
G79-I500C-475	G79-O500C-475	5,000	4,750

### I/O Blocks

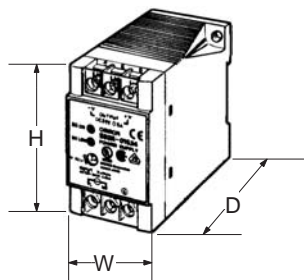
Model	Specifications	
G7TC-IA16	16 inputs	100/110 V AC, 200/220 V AC
G7TC-ID16		24 V DC
G7TC-OC16	16 outputs	Contact output: 24 V DC, 5 A/2 A (cos φ = 1/0.4) 220 V AC, 2 A/1 A (cos φ = 1/0.4)
G7VC-OC16		Contact output, 24 V DC/220 V AC 2 A (cos φ = 1.0) 0.8 A (cos φ = 0.4)
G7VC-OA16		SSR, AC output: 75 to 264 V AC, 0.1 to 0.5 A
G7VC-OD16		SSR, DC output: 3 to 26 V DC, 0.1 to 0.5 A

**Note:** For more details on I/O Blocks and I/O Terminals, refer to the *I/O Terminal Series Catalog (X44-E1-□)*.

## Direct DIN Track-mounting Power Supplies

### S82K-series Power Supplies

The S82K Power Supplies provide DC power to a variety of I/O devices. Use S82K Power Supplies when using a CQM1H that requires a DC power supply or when the CQM1H cannot supply enough power to the connected I/O devices.



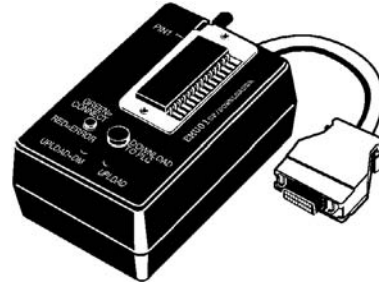
Model	Input voltage	Output current/voltage	Power rating	Dimensions
S82K-03012	100 or 200 V AC (switchable)	12 V DC, 2.5 A	30 W	75 × 90 × 96 mm (H×W×D)
S82K-03024		24 V DC, 1.3 A		
S82K-05024		24 V DC, 2.1 A	50 W	
S82K-10024		24 V DC, 4.1 A	100 W	

### Power Supply Specifications

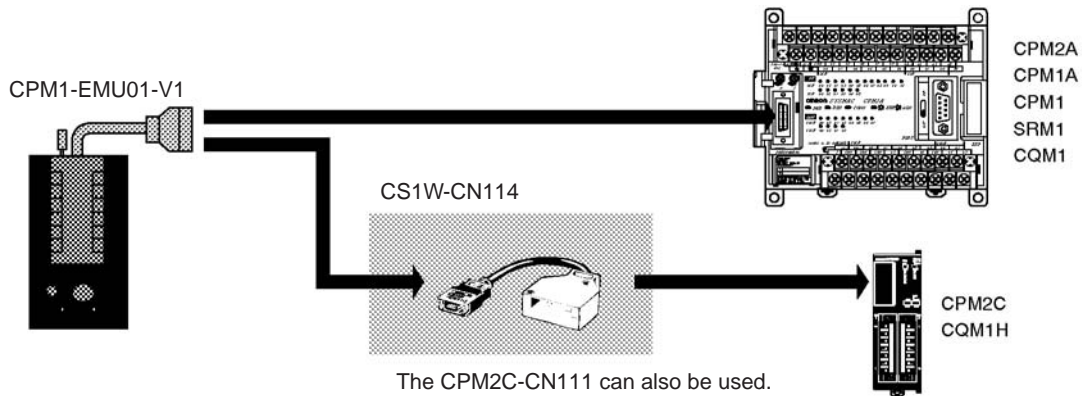
Model	Input voltage	Output current/voltage	Power rating	Dimensions
S82K-01505	100 to 200 V AC	5 V DC, 2.5 A	15 W	75 × 45 × 96 mm (H×W×D)
S82K-01512		12 V DC, 1.2 A		
S82K-01524		24 V DC, 0.6 A		

# Expansion Memory Unit CPM1-EMU01-V1

The Expansion Memory Unit can be used to upload and download user programs and data memory with the press of a button allowing simply program maintenance.



## Connections

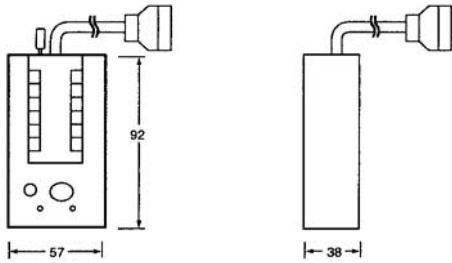


## Specifications

Item	Specification
Supported PCs	CPM1, CPM1A, CPM2A, CPM2C, SRM1 (-V2), CQM1, CQM1H
Read/Write memory areas	User program: 15.2 Kwords max. Data memory: DM 6144 to DM 6655 (Read-only DM and PC Setup) Expansion instructions: 18 instructions
Connector	Connector compatible with peripheral port on CPM1, CPM1A, CPM2A, SRM1 (-V2), and CQM1 PCs. For CPM2C and CQM1H PCs, connect via CS1W-CN114 or CPM2C-CN111 Connecting Cable.
EEPROM (See note.)	256-Kbit EEPROM ATMEL: AT28C256 OMRON: EEROM-JD
Current consumption	129 mA max.
Dimensions	Main body (not including cables or connectors): 57 × 92 × 38 mm (W × H × D)
Weight	200 g max. (not including EEPROM)

**Note:** The EEPROM must be purchased separately.

## Dimensions



## Memory Areas

The memory areas that are uploaded or downloaded vary with the button used as shown in the following table.

Area	Button		
	UPLOAD + DM	UPLOAD	DOWNLOAD TO PLC
Ladder program and expansion instructions	Read from PC to EEPROM.	Read from PC to EEPROM.	All contents of EEPROM written to PC.
DM 6144 to DM 6655		Not affected.	

For details on program size, DM area, and the availability of expansion instructions, refer to the relevant PC manual.

# Absolute Rotary Encoders E6C2-AG5C



**Robust Rotary Encoders Satisfy IP64f Standards and Are Easy to Use with the SYSMAC Cam Positioners.**

- E6C2-A Series
- Provides IP64f (drip-proof) enclosure rating.
- Robust shaft 78.4N/49N
- High resolution of 1,024 provides optimal angle control when used in combination with the SYSMAC Cam Positioner.
- Space-saving size (50-mm dia. x 38-mm length)



## Ordering Information

### ■ Rotary Encoder

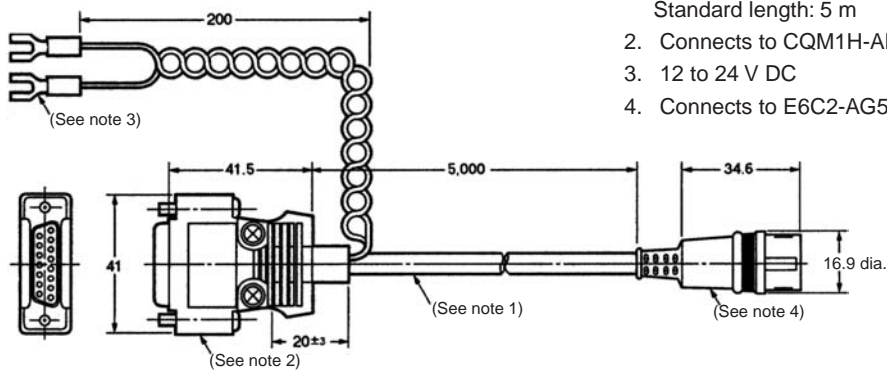
Appearance	Connection method	Connecting device	Resolution per rotation	Model
	Cable	Programmable Controller	256, 360, 720, 1,024	E6C2-AG5C
	Connector	H8PS Cam Positioner (connector included)	256	E6C2-AG5C-C

## Ratings

Supply voltage	12 V DC (-10%) to 24 V DC (+15%), ripple (p-p) of 5% max.
Current consumption	100 mA max.
Resolution (per rotation)	256, 360, 720, or 1,024
Output code	Gray binary
Output type	NPN open collector output
Output capacity	Applied voltage: 30 V DC max., Sink current: 35 mA max, Residual voltage: 0.4 V max
Max. response frequency	20 kHz

## Connecting Cable for CQM1H-ABB21 (Sold Separately)

### E69-DC5



- Note:**
1. Oil-resistant, vinyl-insulated, round shielded cord with external dia. of 6 (12/7 0.18 dia.)  
Standard length: 5 m
  2. Connects to CQM1H-ABB21.
  3. 12 to 24 V DC
  4. Connects to E6C2-AG5C-C Encoder

Compatible Models: E6CP-AG5C-C, E6C2-AG5C-C, and E6F-AG5C-C