2-1 CPU Unit

The CQM1 is a compact, high-speed PC made up of a CPU Unit, Power Supply Unit, and I/O Units that together provide up to 256 total I/O points. These components lock together at the sides, allowing simple changes in the size and capacity of the PC. There are six types of CPU Unit, shown in the table below. All of the CPU Units except for the CQM1-CPU11-E have a built-in RS-232C interface.

Model	Maximum I/O points	Program capacity (words)	DM capacity (Words)	RS-232C port	Analog setting	Pulse I/O	ABS interface	AD/DA conversion
CQM1-CPU11-E	128 pts (7 Units max.)	3.2K	1K	---	---	---	---	---
CQM1-CPU21-E				Yes	---	---	---	---
CQM1-CPU41-EV1	256 pts (11 Units max.)	7.2K	6K		---	---	---	---
CQM1-CPU42-EV1					Yes	---	---	---
CQM1-CPU43-EV1					---	Yes	---	---
CQM1-CPU44-EV1					---	---	Yes	---

CQM1-CPU11-E and CQM1-CPU21-E CPU Units

CQM1-CPU11-E and CQM1-CPU21-E CPU Units provide a maximum of 128 I/O points. The only difference between the two models is the RS-232C port that is added to the CQM1-CPU21-E.

Built-in Analog Setting Function

The CQM1-CPU42-EV1 CPU Unit provides a built-in analog setting function. It has four dedicated volume controls, and their respective values (0 to 200 BCD) appear in words 220 to 223. This function can be used for operations such as changing timer and counter set values during operation.

Built-in Pulse I/O Function

The CQM1-CPU43-EV1 CPU Unit provides a built-in pulse input and output function. It has two dedicated ports for high-speed counting of up to 25-kHz two-phase pulse inputs from a device such as a rotary encoder and outputting up to 50-kHz pulses to a device such as a stepping motor.

Built-in ABS Interface Function

The CQM1-CPU44-EV1 has two ABS interfaces (absolute encoder interfaces) that can directly receive inputs from absolute-type rotary encoders.

Note In this manual, CQM1-CPU11-E/21-E CPU Units are referred to as “standard CPU Units,” and CQM1-CPU41-EV1/42-EV1/43-EV1/44-EV1 CPU Units are referred to as “highly functional, large-capacity CPU Units.”