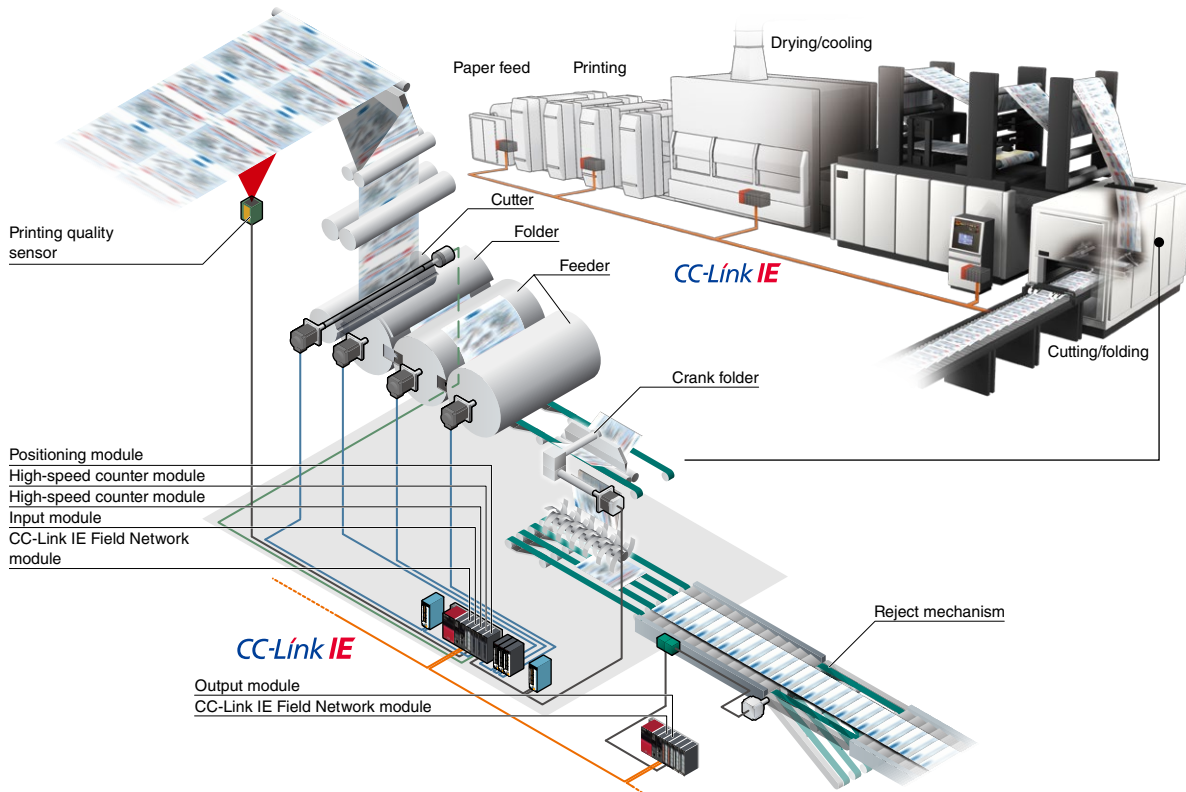## Highly accurate synchronization

The MELSEC iQ-R Series system provides highly accurate synchronization between modules on the control system, which is realized through inter-modular synchronization. Additionally, use of the CC-Link IE Field Network realizes network-level synchronization, providing node-level synchronization that ensures deterministic data flow void of any influence from data transmission delays. This is ideal for applications such as "cutting and folding" inside an offset printer, which requires synchronization between the printing quality sensor, high-speed rotary cutter, folding roller and conveyor.

Power supply module

Item	R61P	R62P	R63P	R64P	R63RP	R64RP
Input power supply voltage	100…240 V AC (85…264 V AC)	100…240 V AC (85…264 V AC)	24 V DC (15.6…31.2 A DC)	100…240 V AC (85…264 V AC)	24 V DC (19.2…31.2 A DC)	100…240 V AC (85…264 V AC)
Input frequency	50/60 Hz ±5%	50/60 Hz ±5%	-	50/60 Hz ±5%	-	50/60 Hz ±5%
Max. input apparent power (VA)	130	120	-	160	-	160
Max. input power (W)	-	-	50	-	50	-
Rated output current (5 V DC, A)	6.5	3.5	6.5	9	6.5	9
Rated output current (24 V DC, A)	-	0.6	-	-	-	-
Redundant power supply	-	-	-	-	●	●

Main base unit (Standard, Extended temperature range)

Item	Main base unit (Standard)					Extended temp. range main base unit[1]	
	R33B	R35B	R38B	R310RB	R312B	R310B-HT	R38RB-HT
Number of I/O modules installed	3	5	8	10	12	10	8
DIN rail mounting adapter type	R6DIN1	R6DIN1	R6DIN1	R6DIN1	R6DIN1	R6DIN1	R6DIN1
External dimensions (H x W x D, mm)	101 x 190 x 32.5	101 x 245 x 32.5	101 x 328 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5

Extension base unit (Standard, Extended temperature range)

Item	Extension base unit (Standard)				Extended temp. range extension base unit[1]	
	R65B	R68B	R610RB	R612B	R610B-HT	R68RB-HT
Number of I/O modules installed	5	8	10	12	10	8
Applicable module	MELSEC iQ-R Series module					
DIN rail mounting adapter type	R6DIN1	R6DIN1	R6DIN1	R6DIN1	R6DIN1	R6DIN1
External dimensions (H x W x D, mm)	101 x 245 x 32.5	101 x 328 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5	101 x 439 x 32.5

RQ extension base unit

Item	RQ extension base unit		
	RQ65B	RQ68B	RQ612B
Number of I/O modules installed	5	8	12
Applicable module	MELSEC-Q Series module		
DIN rail mounting adapter type	Q6DIN2	Q6DIN1	Q6DIN1
External dimensions (H x W x D, mm)	98 x 245 x 44.1	98 x 328 x 44.1	98 x 439 x 44.1

Extension cable

Item	RC06B	RC12B	RC30B	RC50B	RC100B
Cable length[2] (m)	0.6	1.2	3.0	5.0	10.0

*1. Enables standard MELSEC iQ-R Series modules to support extended operating ambient temperature of 0 to 60°C.
*2. Overall cable distance 20 m. 13.2 m with the RQ extension base.