

Base Units

The base unit (sometimes called a base rack) is the foundation of Q Series systems. All CPU modules are installed on it, along with a power supply, I/O and special function modules. Besides providing physical support to the component modules, the base unit enables communication and power distribution between modules. The base unit can either be directly bolted to a panel, or mounted via DIN rail. In the case of DIN rail mounting, the DIN rail Adapters must be used. Base units accommodate between 3 and 12 modules. For systems that require more modules than can be accommodated on the base unit, an extension base unit is required. These connect to the base unit via extension cables.

Q Series High Speed Base Units

The high speed base units utilize a secondary inter-CPU bus to share more data at faster speeds between up to 4 CPUs. Older Q Series CPU models may be used on the base unit, but will not increase in performance.

Model Number	Q35DB	Q38DB	Q312DB
Stocked Item	S	S	S
Certification	UL • cUL • CE		
Expansion Slots (Excluding 1st CPU Slot)	5	8	12
Dimension (W x H) mm (in)	245 x 98 (9.65 x 3.86)	328 x 98 (12.92 x 3.86)	439 x 98 (17.30 x 3.86)
Weight (kg)	0.32	0.41	0.54
Accessories	4- M4 x 14 base unit mounting screws		

Q Series Base Units

Model Number	Q33B	Q35B	Q38B	Q38RB	Q312B
Stocked Item	S	S	S	-	S
Certification	UL • cUL • CE				
Number of Expansion Slots (Excluding 1st CPU Slot)	3	5	8	8	12
Redundant Power Supply Slot	No	No	No	Yes	No
Dimension (W x H) mm (in)	189 x 98 (7.45 x 3.86)	245 x 98 (9.65 x 3.86)	328 x 98 (12.92 x 3.86)	439 x 98 (17.30 x 3.86)	
Weight (kg)	0.21	0.27	0.36	0.47	0.47
Accessories	4- M4 x 14 base unit mounting screws				

DIN Rail Adapters

Use these Adapters in situations where mounting of a base or extension unit on a DIN rail is required.

Note: DIN rail mounting is not recommended in locations where high vibration or mechanical shock exists.

Type	Applicable Base or Extension Base	Stocked Item
Q6DIN1	Q38B, Q38DB, Q312B, Q312DB Q68B, Q612B	S
Q6DIN2	Q35B, Q35DB Q65B, Q00JCPU-S8, Q00UJCPU	S
Q6DIN3	Q33B, Q52B, Q55B, Q63B	-

Extension Base Units and Connection Cables

Use extension base units (also known as extension racks) in systems that require more modules than can be accommodated on the main base unit. Extension base units are available with a slot for an additional power supply (Q6_B) or without (Q5_B). Use Q6_B extension bases in systems where the current supplied by the base unit power supply is insufficient for the whole system. Up to 7 extension base units may be connected to the base unit, allowing a total of 8 bases. The 8 base units may be extended over a distance of up to 13.2 m (43.28 ft). The maximum number of installed modules is 64. If your system requires more modules or greater distances, consider using a network to link the system together. See the network section for more details.

Model Number	Q52B	Q55B	Q63B	Q65B	Q68B	Q68RB	Q612B	Q65WRB (*1)
Stocked Item	S	S	-	S	S	-	S	S
Certification	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE	UL • cUL • CE
Number of Expansion Slots	2	5	3	5	8	8	12	5
Power Supply Module Slot	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Redundant Power Supply Slot	No	No	No	No	No	Yes	No	Yes
Dimensions (W x H) mm (in)	106 x 98 (4.18 x 3.86)	189 x 98 (7.45 x 3.86)	189 x 98 (7.45 x 3.86)	245 x 98 (9.65 x 3.86)	328 x 98 (12.92 x 3.86)	439 x 98 (17.30 x 3.86)	439 x 98 (17.30 x 3.86)	439 x 98 (17.30 x 3.86)
Weight (kg)	0.14	0.23	0.23	0.28	0.38	0.49	0.48	0.52

Note 1: The Q65WRB has dual Q Bus inputs for Local Extension I/O support in Redundant Systems.

Extension Cables for Extension Base Units

These cables are used to link main base units to extension base units. They are available in a variety of lengths from 0.45m (1.48 ft.) to 10m (32.8 ft.).

Model Number	QC05B	QC06B	QC12B	QC30B	QC50B	QC100B
Stocked Item	S	S	S	S	S	S
Certifications	CE	CE	CE	CE	CE	CE
Cable Length m (ft)	0.45 (1.48)	0.6 (1.97)	1.2 (3.93)	3 (9.84)	5 (16.39)	10 (32.79)
Weight (kg)	0.15	0.16	0.22	0.40	0.60	1.11