

Precautions

A conversion adapter is used to compensate the difference of the pin assignment when MELSEC-AnS series modules are replaced with MELSEC-Q series modules.

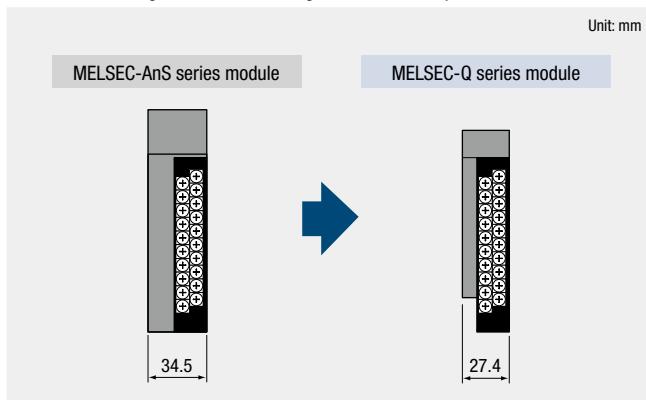
Before using the product, please read the user's manual for the conversion adapter used. (The user's manuals can be downloaded from our website.)

When replacing the MELSEC-AnS series with the MELSEC-Q series, refer to the user's manuals for each MELSEC-Q series module to check the differences in performance, functionality, input/output signals to/from the CPU module, and buffer memory addresses.

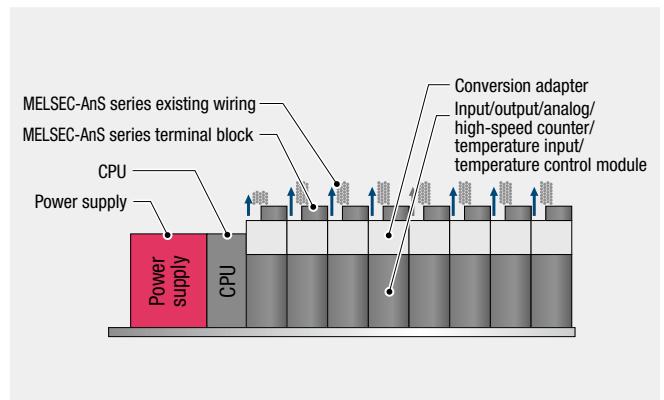
Also, refer to the Transition from MELSEC-AnS/QnAS (Small Type) Series to Q Series Handbook published by Mitsubishi Electric. (Recommended)

Module width

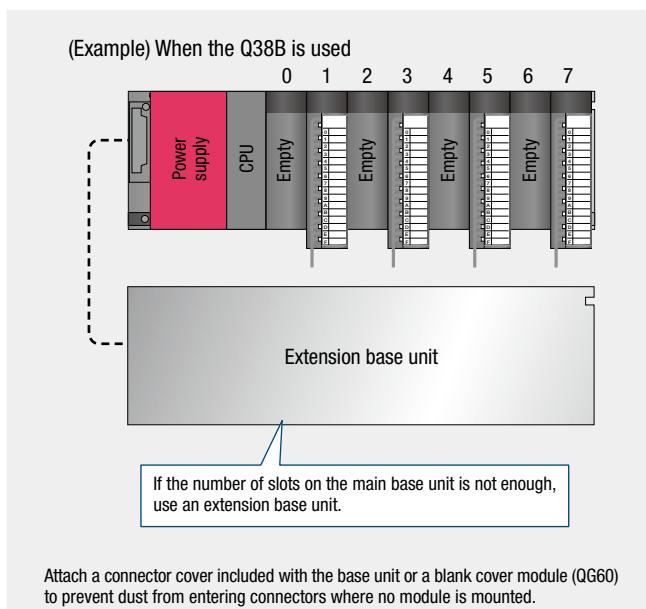
(1) Since the width of MELSEC-Q series modules is smaller (MELSEC-AnS series: 34.5mm → MELSEC-Q series: 27.4mm), the wiring area becomes smaller as well. Check the wiring area when mounting a conversion adapter.



(2) If the wiring causes interference with adjacent modules, lift the cables forward to prevent interference.



(3) If interference still occurs, leave the next slot open to secure a space for wiring.



Attach a connector cover included with the base unit or a blank cover module (QG60) to prevent dust from entering connectors where no module is mounted.

(4) Taking the wiring area into consideration, the number of replaceable modules will be as follows.

MELSEC-AnS series base unit model	MELSEC-Q series base unit model	Replaced with							No. of replaceable modules	
		Mounting method								
A1S38B A1S38HB A1S38HBEU	Q38B	0	1	2	3	4	5	6	7	4
A1S35B	Q35B	0	1	2	3	4	Empty	Empty	Empty	2
A1S33B A1S32B	Q33B	0	1	2	Empty	Empty	Empty	Empty	Empty	1
A1S68B A1S58B	Q68B	0	1	2	3	4	5	6	7	4
A1S65B	Q65B	0	1	2	3	4	Empty	Empty	Empty	2
A1S55B	Q55B	0	1	2	3	4	Empty	Empty	Empty	3
A1S52B	Q52B	0	1	Empty	Empty	Empty	Empty	Empty	Empty	1
A1SJCPU A1SJCPU-S3 A1SJHCPU	Q00JCPU Q00UJCPU Q35B	0	1	2	3	4	Empty	Empty	Empty	2

(5) If modules cannot be replaced in accordance with (2), (3), and (4), consider the use of the Q series large type base unit (MELSEC-AnS series size) manufactured by Mitsubishi Electric. → P.16

Note) 2-slot type conversion adapters cannot be used.

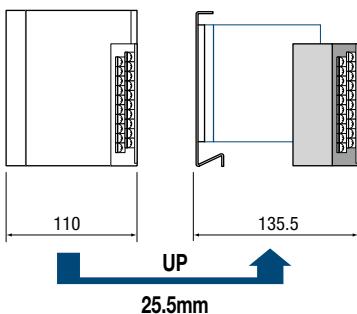
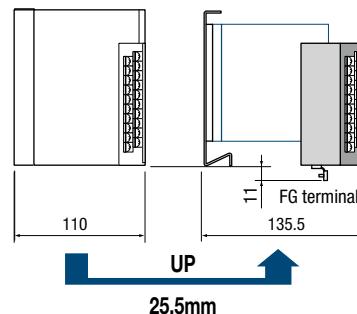
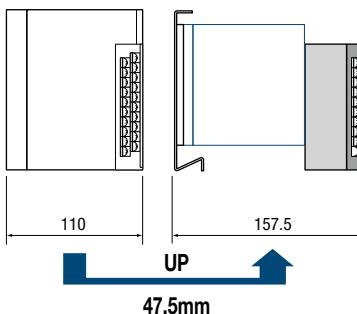
Depth / Height

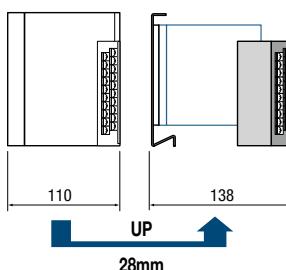
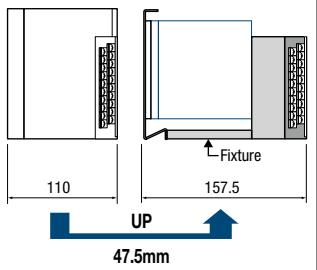
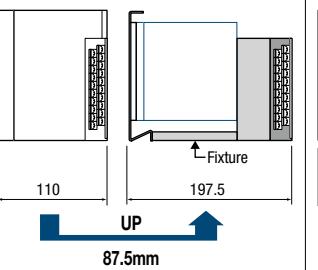
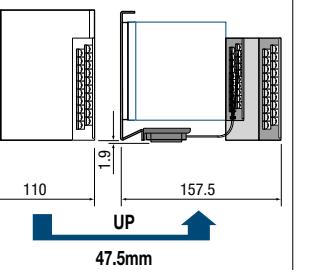
When a base adapter is used

The depth increases by 25.5 to 87.5mm.

The height increases by 11mm toward the lower side when the ERNT-ASQT68AD is used and by 1.9mm toward the lower side when the ERNT-ASQT6□TC□□BW is used.

MELSEC-AnS : MELSEC-AnS series MELSEC-Q : MELSEC-Q series

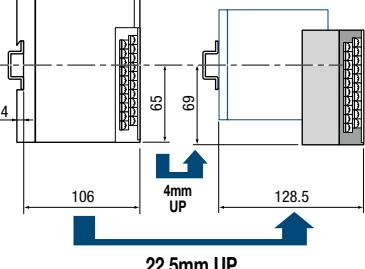
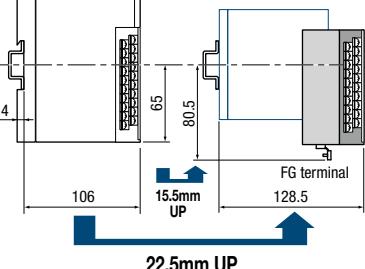
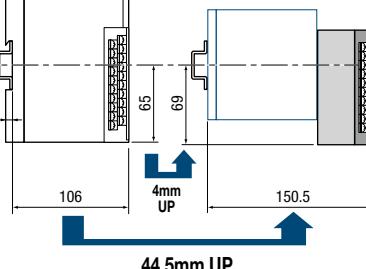
Conversion adapter	ERNT-ASQTY10 ERNT-ASQTX40 ERNT-ASQTX80 ERNT-ASQTY40	ERNT-ASQTY50 ERNT-ASQTY80 ERNT-ASQT64AD ERNT-ASQT62RD	ERNT-ASQT68AD	ERNT-ASQTY22 ERNT-ASQT62DA ERNT-ASQT68DA ERNT-ASQT63ADA	ERNT-ASQT64TCTT ERNT-ASQT64TCRT ERNT-ASQT62TCTT ERNT-ASQT62TCRT
Depth	25.5mm UP		25.5mm UP		47.5mm UP
Height	0mm UP		11mm UP		0mm UP
Mounting diagram	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>135.5</p> <p>25.5mm</p>	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>135.5</p> <p>11</p> <p>FG terminal</p> <p>25.5mm</p>	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>157.5</p> <p>47.5mm</p>		

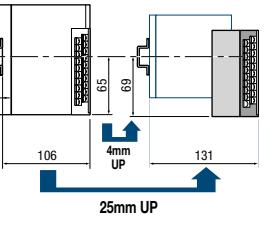
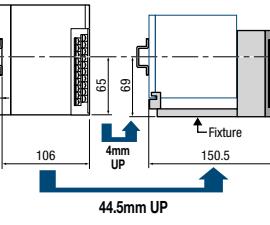
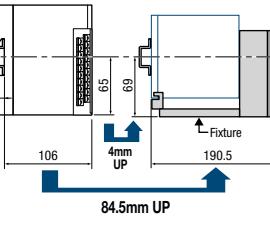
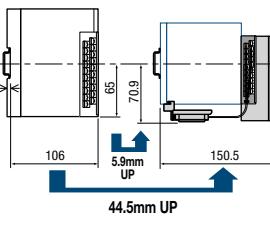
Conversion adapter	ERNT-ASQTX20 ERNT-ASQTY60 ERNT-ASQTY60E	ERNT-ASQT68AD-G ERNT-ASQTD61 ERNT-ASQTD62 ERNT-ASQTD62D ERNT-ASQT68TD-H01	ERNT-ASQT68TD-H02	ERNT-ASQT64TCTTBW ERNT-ASQT64TCRTBW ERNT-ASQT62TCTTBW ERNT-ASQT62TCRTBW
Depth	28mm UP	47.5mm UP	87.5mm UP	47.5mm UP
Height	0mm UP	0mm UP	0mm UP	1.9mm UP
Mounting diagram	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>138</p> <p>28mm</p>	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>157.5</p> <p>Fixture</p> <p>47.5mm</p>	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>197.5</p> <p>Fixture</p> <p>87.5mm</p>	<p>MELSEC-AnS</p> <p>MELSEC-Q + Upgrade tool product</p>  <p>110</p> <p>157.5</p> <p>1.9</p> <p>47.5mm</p>

When a DIN rail is used

The depth increases by 22.5 to 84.5mm. The height increases by 4 to 15.5mm toward the lower side.

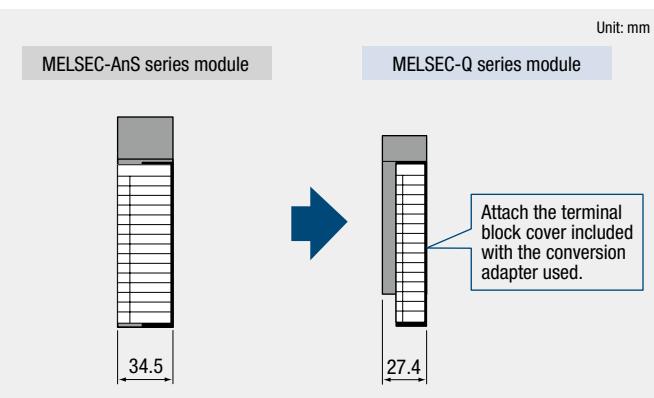
MELSEC-AnS : MELSEC-AnS series MELSEC-Q : MELSEC-Q series

Conversion adapter	ERNT-ASQTY10 ERNT-ASQTX40 ERNT-ASQTX80 ERNT-ASQTY40	ERNT-ASQTY50 ERNT-ASQTY80 ERNT-ASQT64AD ERNT-ASQT62RD	ERNT-ASQT68AD	ERNT-ASQTY22 ERNT-ASQT62DA ERNT-ASQT68DA ERNT-ASQT63ADA	ERNT-ASQT64TCTT ERNT-ASQT64TCRT ERNT-ASQT62TCCTT ERNT-ASQT62TCRT
Depth	22.5mm UP		22.5mm UP		44.5mm UP
Height	4mm UP		15.5mm UP		4mm UP
Mounting diagram	MELSEC-AnS + Upgrade tool product	MELSEC-Q + Upgrade tool product	MELSEC-AnS + Upgrade tool product	MELSEC-AnS + Upgrade tool product	MELSEC-Q + Upgrade tool product
					

Conversion adapter	ERNT-ASQTX20 ERNT-ASQTY60 ERNT-ASQTY60E	ERNT-ASQT68AD-G ERNT-ASQTD61 ERNT-ASQTD62 ERNT-ASQTD62D ERNT-ASQT68TD-H01	ERNT-ASQT68TD-H02	ERNT-ASQT64TCTTBW ERNT-ASQT64TCRTBW ERNT-ASQT62TCTTBW ERNT-ASQT62TCRTBW
Depth	25mm UP	44.5mm UP	84.5mm UP	44.5mm UP
Height	4mm UP	4mm UP	4mm UP	5.9mm UP
Mounting diagram	MELSEC-AnS + Upgrade tool product	MELSEC-Q + Upgrade tool product	MELSEC-AnS + Upgrade tool product	MELSEC-AnS + Upgrade tool product
				

Terminal block cover

The MELSEC-AnS series terminal block cover is larger than the width of the MELSEC-Q series modules. Replace it with the terminal block cover included with the conversion adapter used.
(2-slot type modules are excluded.)



Base adapter, conversion adapter DIN rail mounting bracket

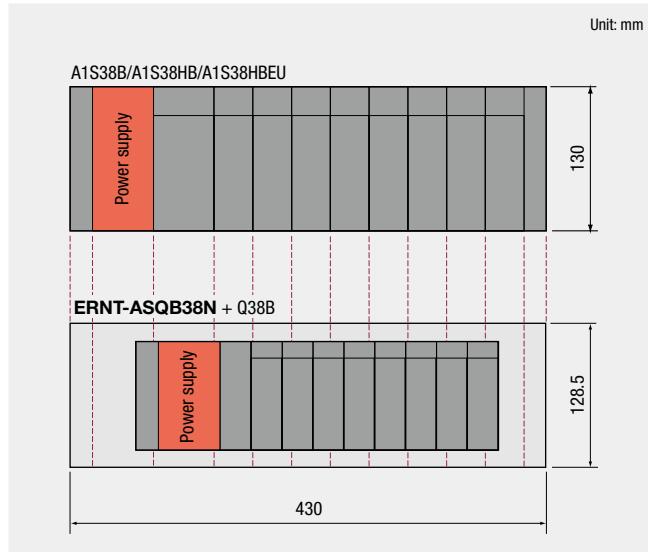
When a conversion adapter with a fixture or a disconnection detection connector conversion cable for the temperature control module is used, a base adapter or a conversion adapter DIN rail mounting bracket is required. Note that when installing the MELSEC-Q series base unit onto a DIN rail, a DIN rail adapter manufactured by Mitsubishi Electric (sold separately) is also required.

Installation method	Conversion adapter	Disconnection detection connector conversion cable	Base adapter ERNT-ASQB[]N	Conversion adapter DIN rail mounting bracket ERNT-ASQDIN[]	Remarks
Panel surface installation	With a fixture	Connected	Required	-	-
	Without a fixture	Not connected	Required*	-	*: Not required when the MELSEC-AnS series base unit installation holes are not used.
DIN rail installation	With a fixture	Connected	-	Required*	*: A DIN rail adapter manufactured by Mitsubishi Electric (sold separately) is also required.
	Without a fixture	Not connected	-	Not required	-

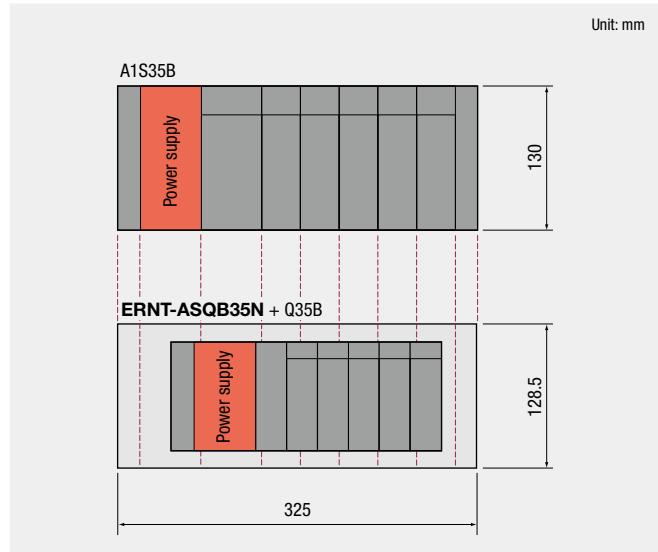
Slot positions

The slot positions differ between the MELSEC-AnS series modules before replacement and the MELSEC-Q series modules after replacement. Change the slot positions of modules (there may be empty slots) and adjust wiring lengths prior to use.

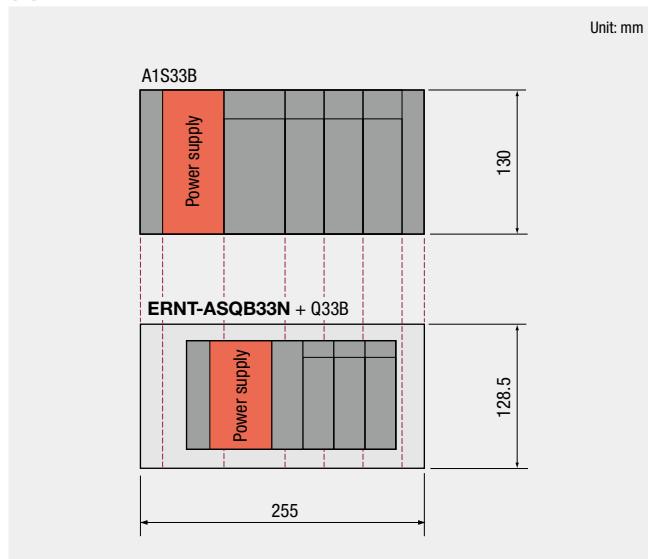
(1) A1S38B/A1S38HB/A1S38HBEU → Q38B



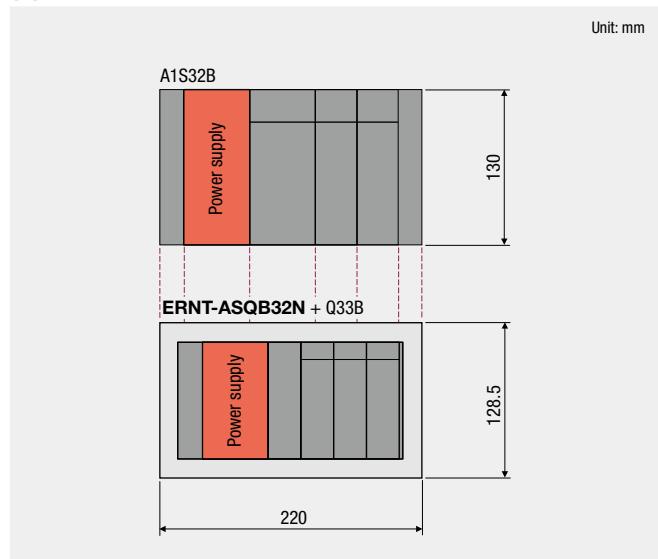
(2) A1S35B → Q35B



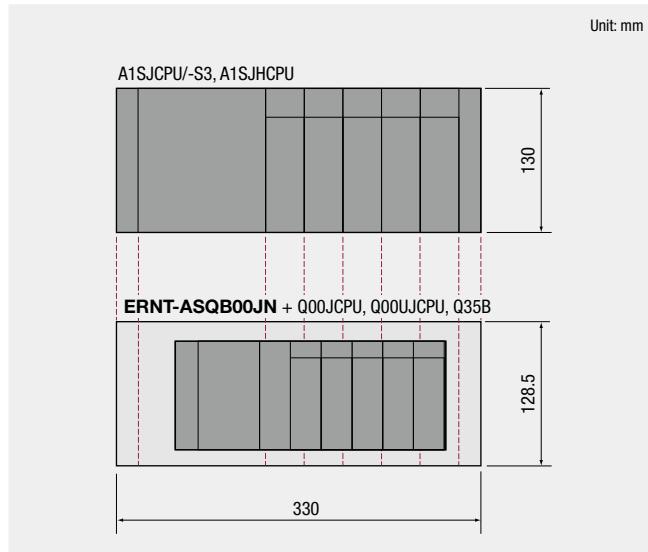
(3) A1S33B → Q33B



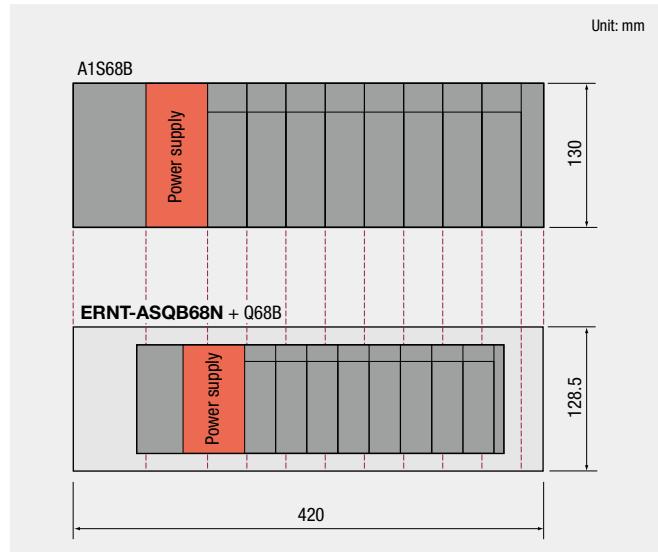
(4) A1S32B → Q33B



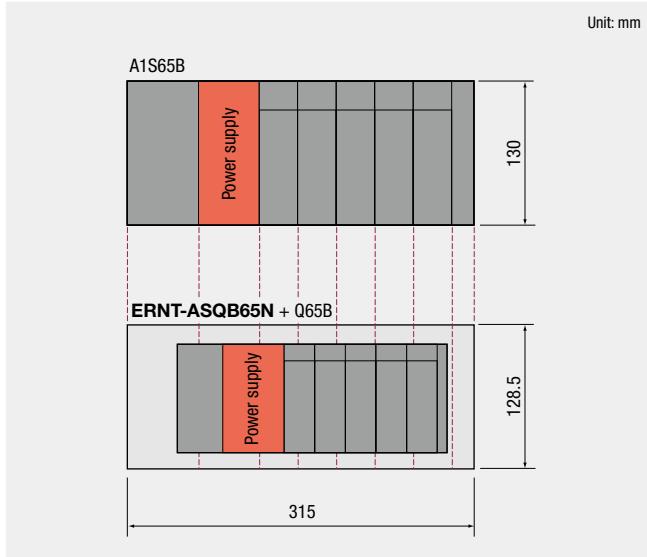
(5) A1SJCPU/-S3, A1SJHCPU → Q00JCPU, Q00UJCPU, Q35B



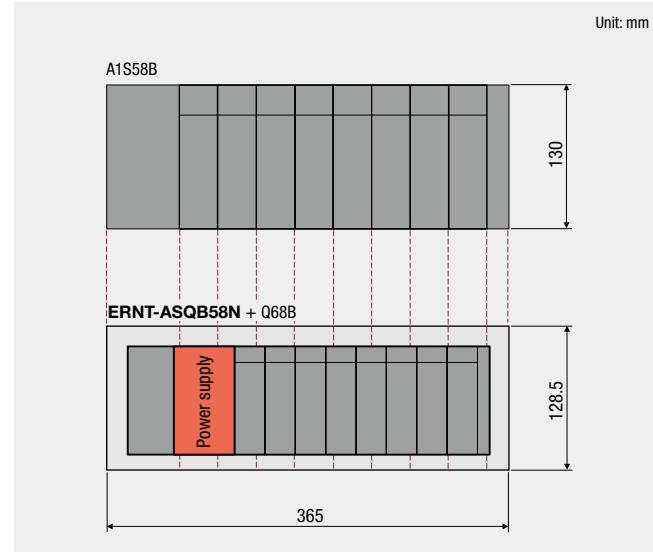
(6) A1S68B → Q68B



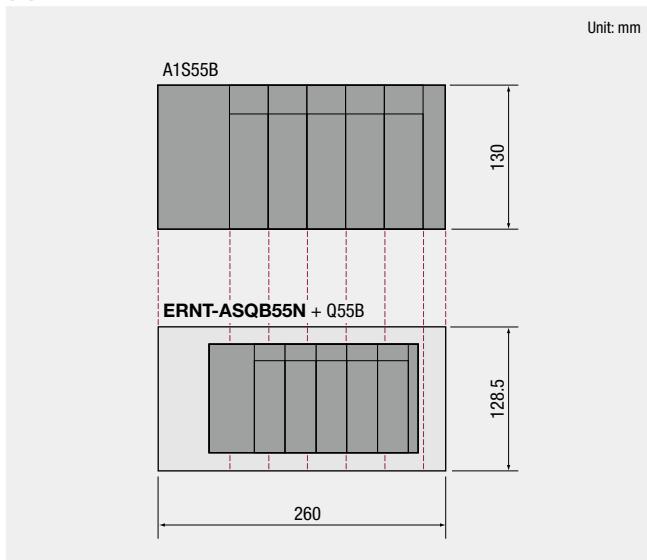
(7) A1S65B → Q65B



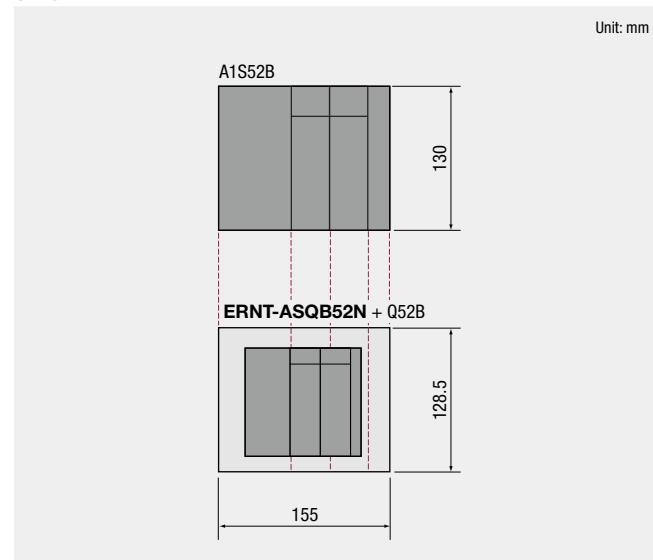
(8) A1S58B → Q68B



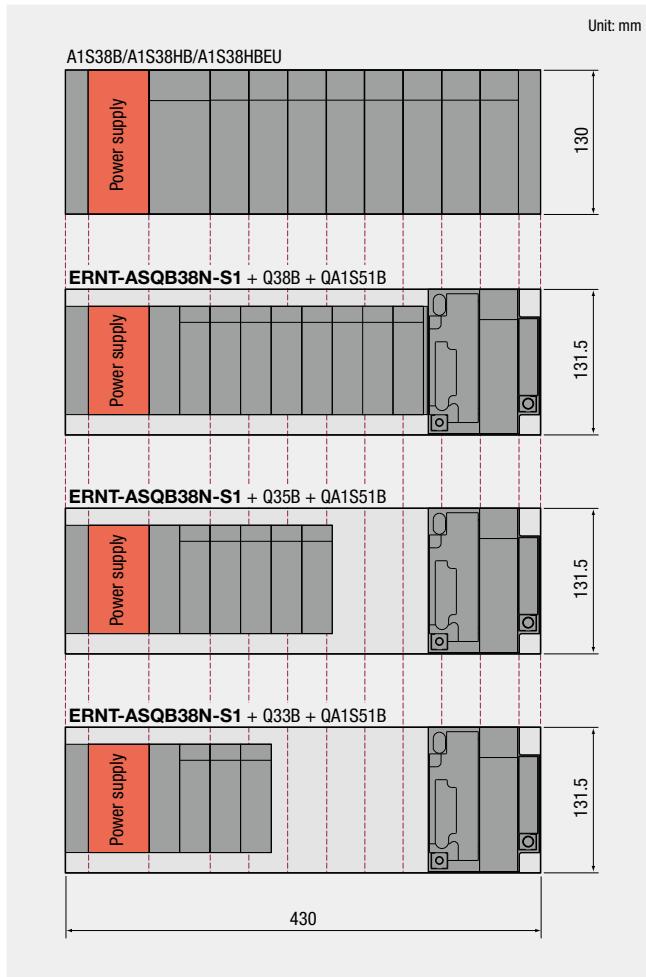
(9) A1S55B → Q55B



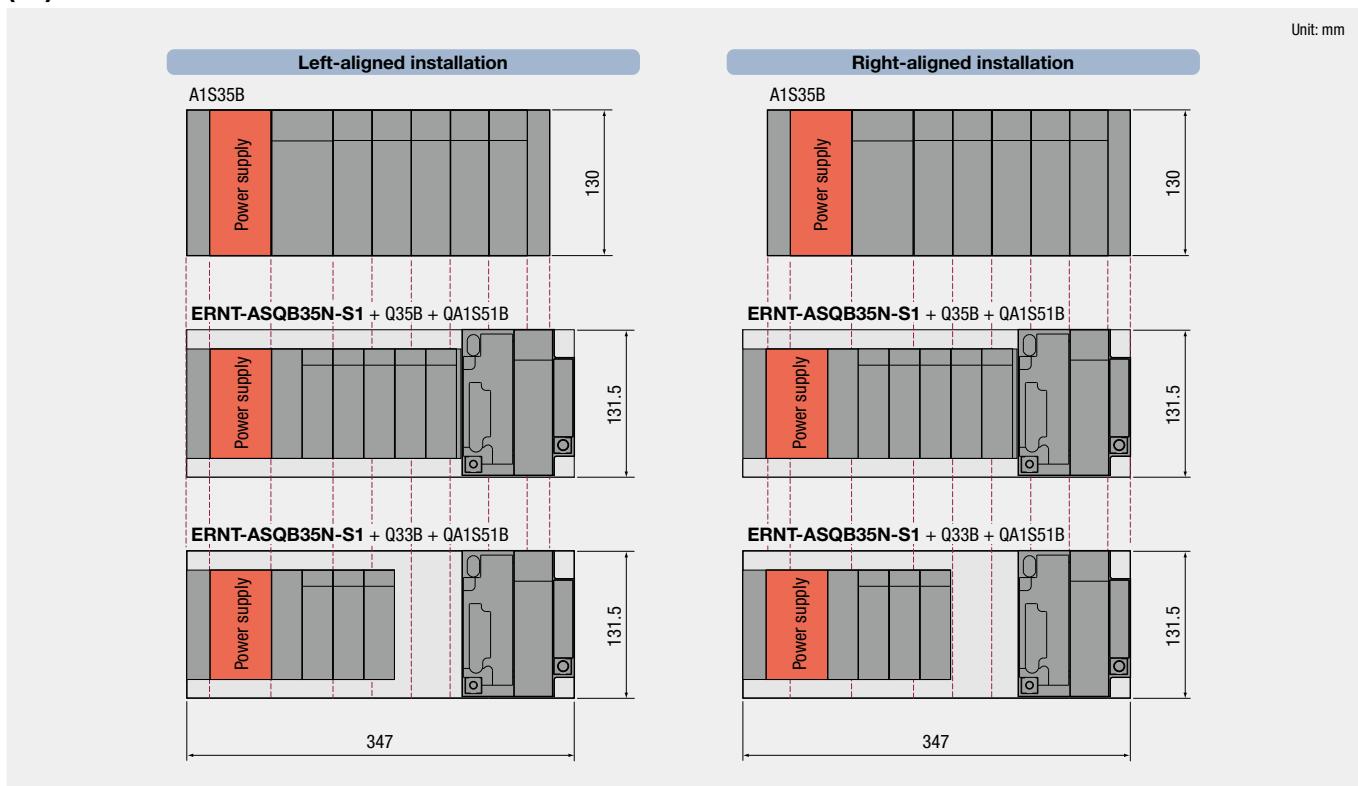
(10) A1S52B → Q52B



(11) A1S38B/A1S38HB/A1S38HBEU → Q38B/Q35B/Q33B+QA1S51B

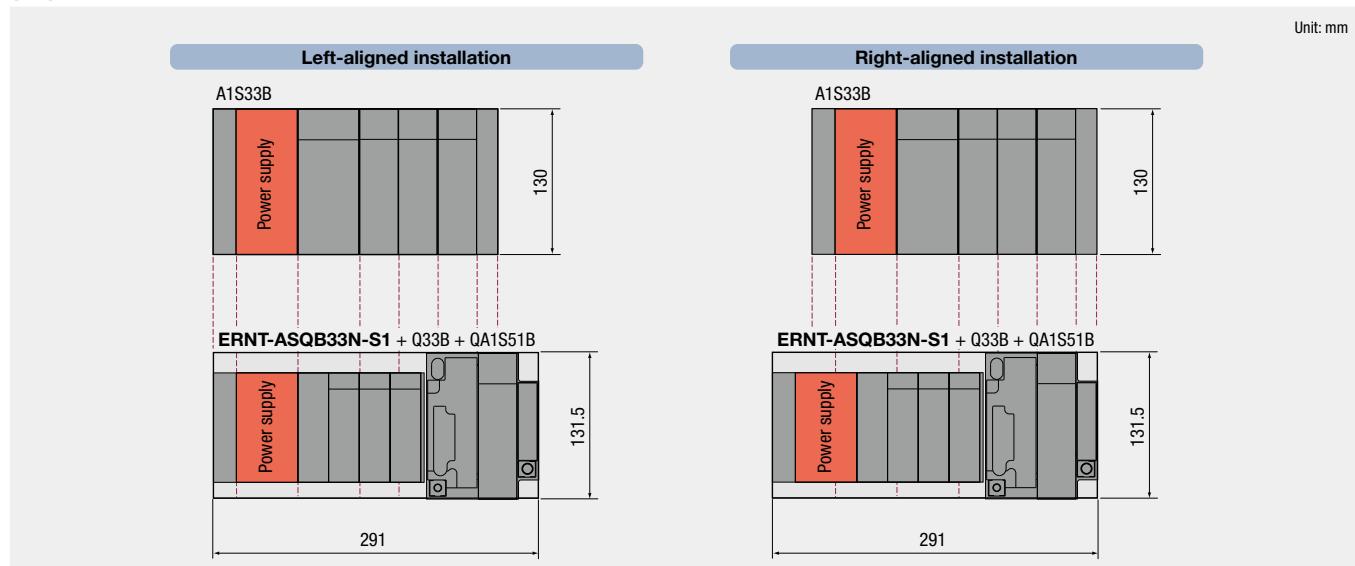


(12) A1S35B → Q35B/Q33B+QA1S51B



*1: The width increases by 22mm for the ERNT-ASQB35N-S1 and by 36mm for the ERNT-ASQB33N-S1. Check the installation space.

(13) A1S33B → Q33B+QA1S51B



*2: The width increases by 22mm for the ERNT-ASQB35N-S1 and by 36mm for the ERNT-ASQB33N-S1. Check the installation space.