

Precautions

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

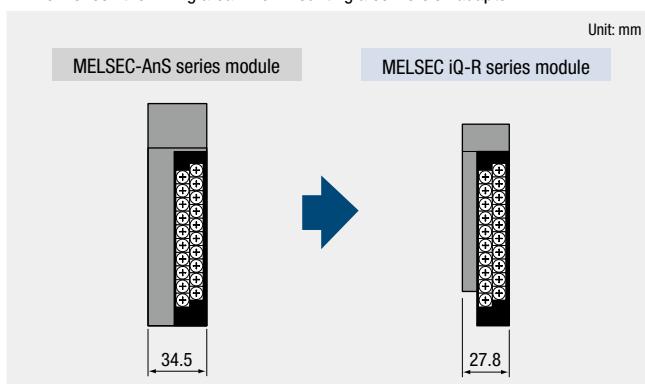
When replacing the MELSEC-AnS series with the MELSEC iQ-R series, refer to the user's manuals for each MELSEC iQ-R series module to check the differences in performance, functionality, input/output signals to/from the CPU module, and buffer memory addresses.

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

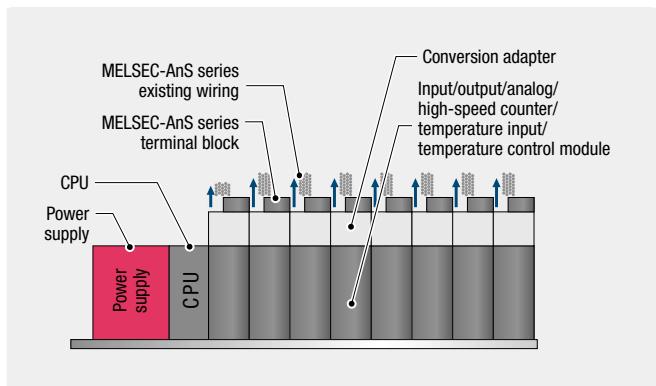
Module width

(1) Since the width of MELSEC iQ-R series modules is smaller (MELSEC-AnS series:

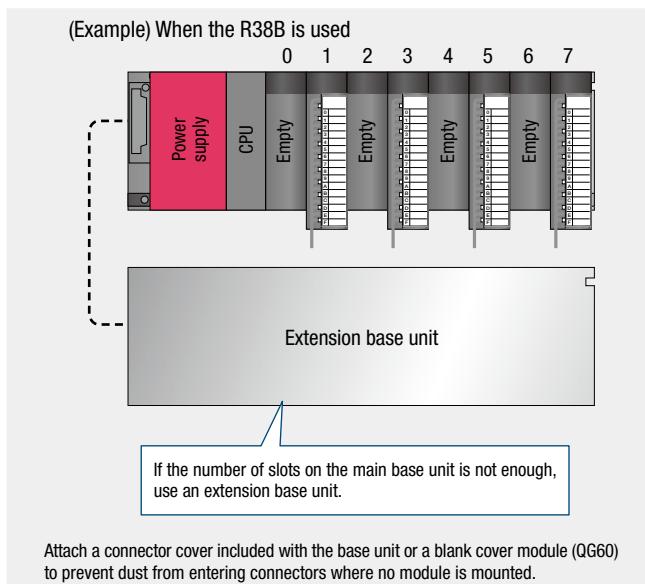
34.5 mm → MELSEC iQ-R series: 27.8 mm), the wiring area becomes smaller as well. Check the wiring area when mounting a conversion adapter.



(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 iQ-R series base unit model	Replaced with							No. of replaceable modules	
		Mounting method								
A1S38B A1S38HB A1S38HBEU	R38B	0	1	2	3	4	5	6	7	4
A1S35B	R35B	0	1	2	3	4				2
A1S68B A1S58B	R68B	0	1	2	3	4	5	6	7	4
A1S65B	R65B	0	1	2	3	4				2
A1SJCPU A1SJCPU-S3 A1SJHCPU	R35B	0	1	2	3	4				2
A1S33B	R33B	0	1	2						1
A1S32B	R33B	0	1	2						1

(5) If modules cannot be replaced in accordance with (2), (3), and (4), consider the use of the extended temperature range base unit manufactured by Mitsubishi Electric.

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

Depth / Height

When a base adapter is used

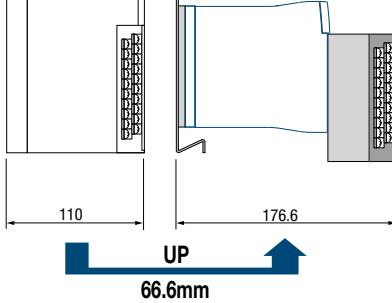
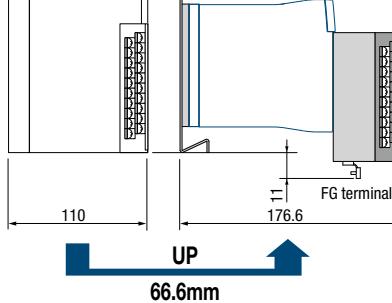
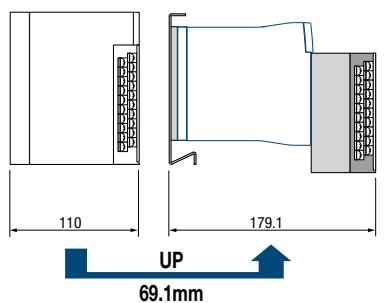
The depth from the panel surface increases. Check the depth when mounting a conversion adapter.

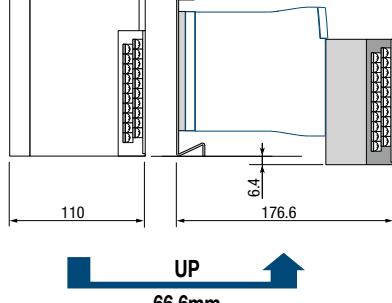
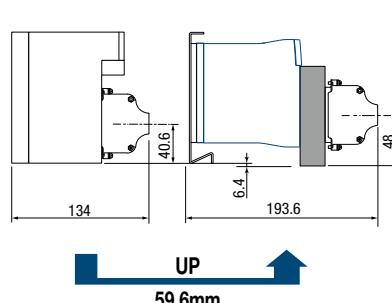
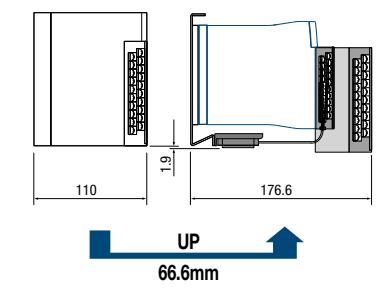
The height may also increases toward the lower side depending on the replaced module. Check the depth and height when mounting a conversion adapter.

MELSEC-AnS series: [Base unit] + [Input/output/analog/high-speed counter/temperature input/temperature control module] + [Terminal block/connector]

MELSEC iQ-R series + Upgrade tool product: [Base adapter] + [Base unit] + [Input/output/analog/high-speed counter/temperature input/temperature control module] + [Conversion adapter] + [Terminal block/connector]

MELSEC-AnS : MELSEC-AnS series MELSEC iQ-R : MELSEC iQ-R series

Conversion adapter	ERNT-ASQTY10 ERNT-ASQTY22 ERNT-ASQTY40 ERNT-ASQTY40 ERNT-ASQTY50 ERNT-ASQTY80 ERNT-ASQT64AD	ERNT-ASQT62DA ERNT-ASQT68DA ERNT-2AR64TT ERNT-2AR64TR ERNT-2AR62TT ERNT-2AR62TR	ERNT-ASQT68AD	ERNT-2AR20X
Depth	66.6mm UP	66.6mm UP	66.6mm UP	69.1mm UP
Height	0mm UP	11mm UP	11mm UP	0mm UP
Mounting diagram	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>110</p> <p>176.6</p> <p>66.6mm</p> <p>UP</p>	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>110</p> <p>176.6</p> <p>FG terminal</p> <p>66.6mm</p> <p>UP</p>	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>110</p> <p>179.1</p> <p>69.1mm</p> <p>UP</p>	

Conversion adapter	ERNT-ASLTD61 ERNT-ASLTD62 ERNT-2AR62DD ERNT-2AR68AG ERNT-2AR68TD ERNT-2AR62RD	ERNT-ASLCXY81	ERNT-2AR64TT1BW ERNT-2AR64TR1BW ERNT-2AR62TT1BW ERNT-2AR62TR1BW
Depth	66.6mm UP	59.6mm UP	66.6mm UP
Height	6.4mm UP	6.4mm UP	1.9mm UP
Mounting diagram	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>110</p> <p>176.6</p> <p>6.4</p> <p>66.6mm</p> <p>UP</p>	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>134</p> <p>40.6</p> <p>6.4</p> <p>193.6</p> <p>48</p> <p>59.6mm</p> <p>UP</p>	<p>MELSEC-AnS</p> <p>MELSEC iQ-R + Upgrade tool product</p>  <p>110</p> <p>176.6</p> <p>1.9</p> <p>66.6mm</p> <p>UP</p>

When a DIN rail is used

The depth increases, and also the height increases toward the lower side. Check the depth and height when mounting a conversion adapter.

MELSEC-AnS series: Base unit + Input/output/analog/high-speed counter/temperature input/temperature control module + Terminal block/connector

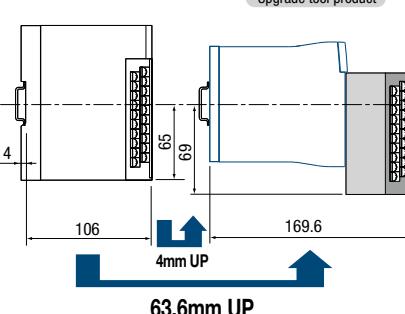
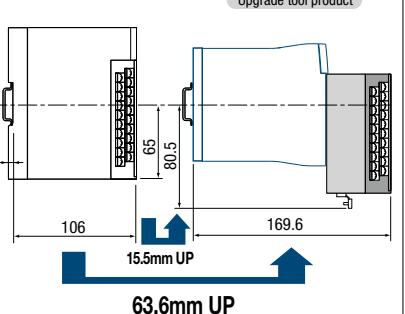
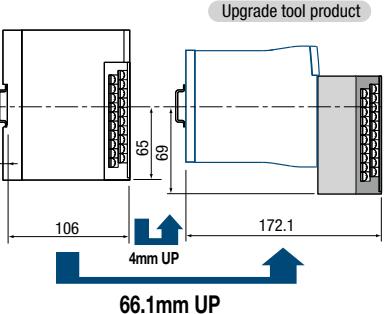
MELSEC iQ-R series + Upgrade tool product: Base unit + Input/output/analog/high-speed counter/temperature input/temperature control module + Conversion adapter + Terminal block/connector

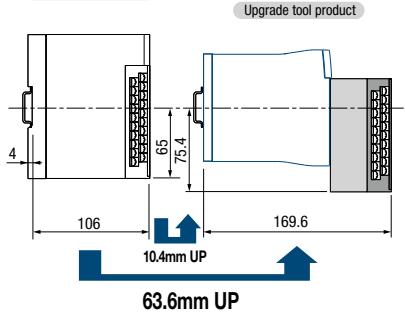
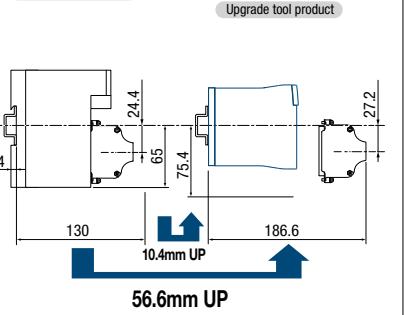
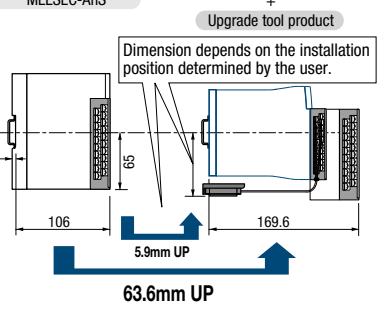
MELSEC-AnS

: MELSEC-AnS series

MELSEC iQ-R

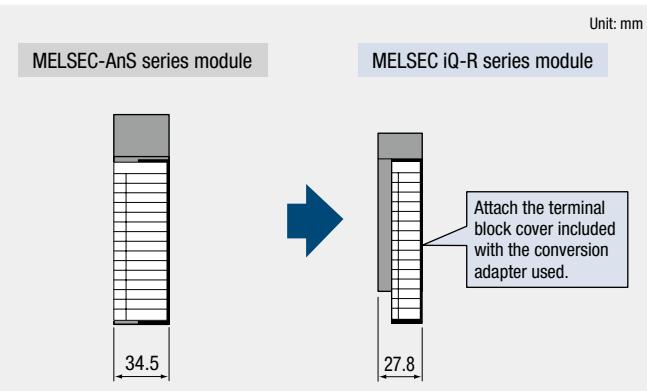
: MELSEC iQ-R series

Conversion adapter	ERNT-ASQTY10 ERNT-ASQTY22 ERNT-ASQTY40 ERNT-ASQTY40 ERNT-ASQTY50 ERNT-ASQTY80 ERNT-ASQTY64AD	ERNT-ASQT62DA ERNT-ASQT68DA ERNT-2AR64TT ERNT-2AR64TR ERNT-2AR62TT ERNT-2AR62TR	ERNT-ASQT68AD	ERNT-2AR20X
Depth	63.6mm UP		63.6mm UP	66.1mm UP
Height	4mm UP		15.5mm UP	4mm UP
Mounting diagram	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>63.6mm UP</p>	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>63.6mm UP</p>	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>66.1mm UP</p>	

Conversion adapter	ERNT-ASLTD61 ERNT-ASLTD62 ERNT-2AR62DD ERNT-2AR68AG ERNT-2AR68TD ERNT-2AR62RD	ERNT-ASLCXY81	ERNT-2AR64TT1BW ERNT-2AR64TR1BW ERNT-2AR62TT1BW ERNT-2AR62TR1BW
Depth	63.6mm UP	56.6mm UP	63.6mm UP
Height	10.4mm UP	10.4mm UP	5.9mm UP
Mounting diagram	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>63.6mm UP</p>	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>56.6mm UP</p>	 <p>MELSEC-AnS MELSEC iQ-R + Upgrade tool product</p> <p>63.6mm UP</p> <p>Dimension depends on the installation position determined by the user.</p>

Terminal block cover

The MELSEC-AnS series terminal block cover is larger than the width of the MELSEC iQ-R series modules. Replace it with the terminal block cover included with the conversion adapter used.



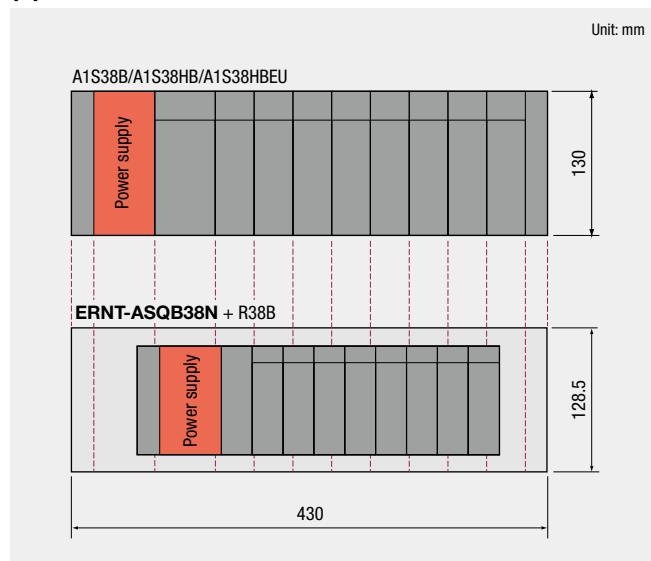
Base adapter

The use of a base adapter is recommended because the MELSEC iQ-R series can be installed using the MELSEC-AnS series base unit installation holes. (Drilling of additional holes is not required.)

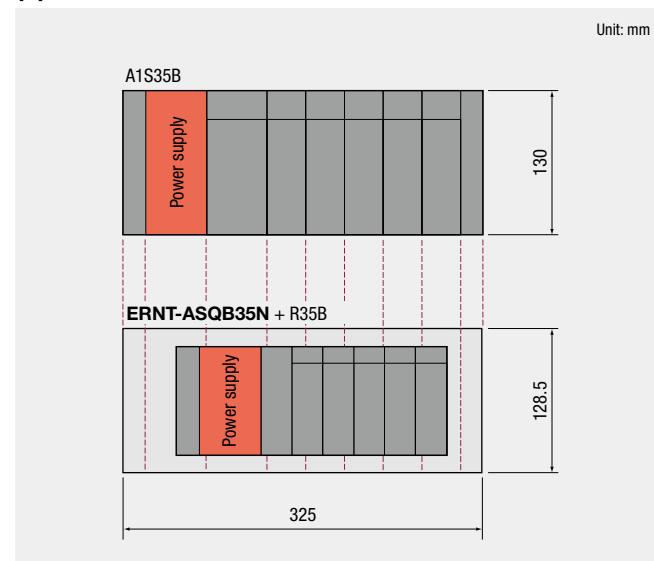
Slot positions

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

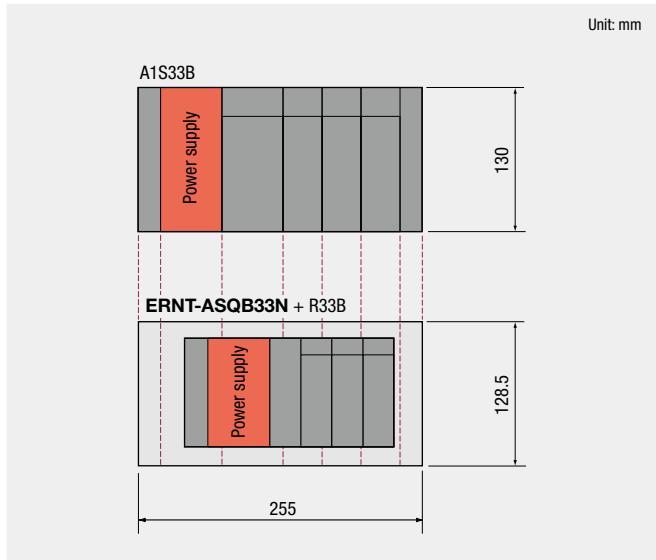
(1) A1S38B/A1S38HB/A1S38HBEU → R38B



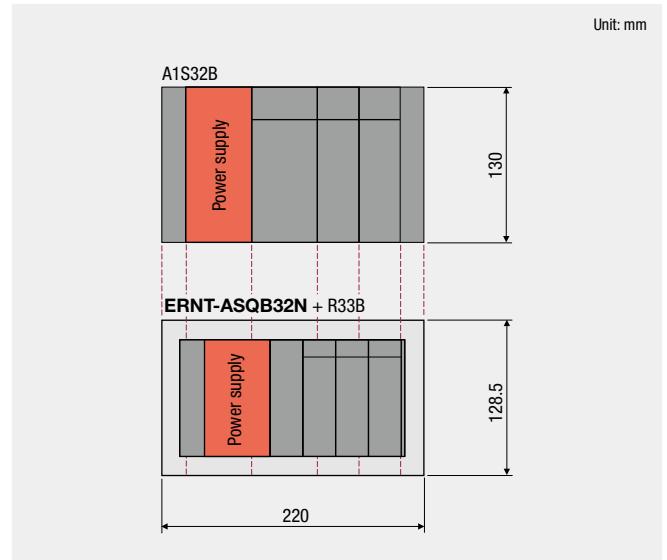
(2) A1S35B → R35B



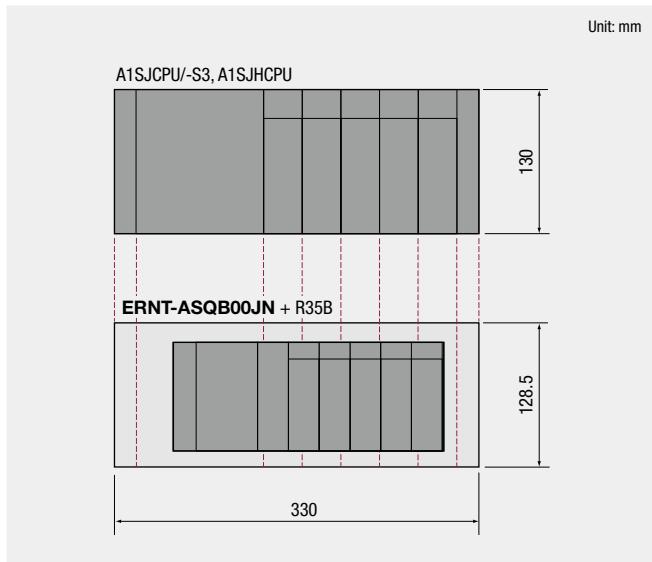
(3) A1S33B → R33B



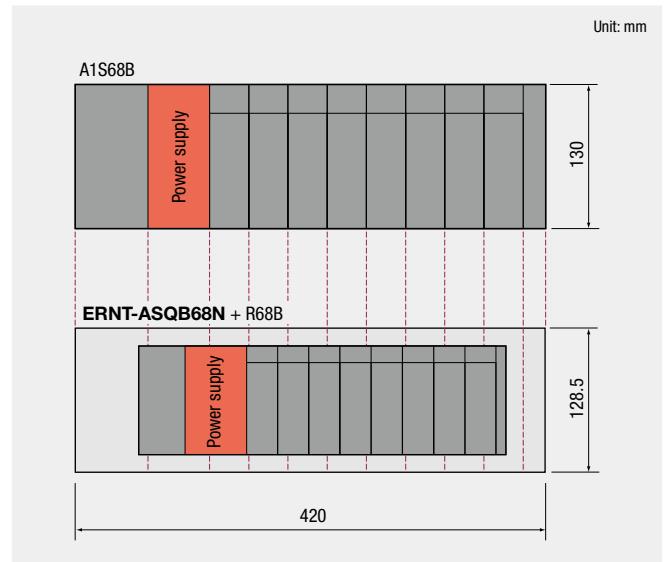
(4) A1S32B → R33B



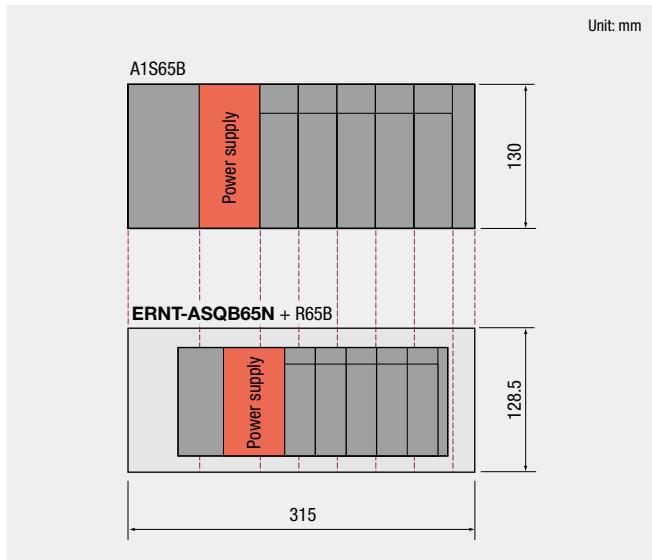
(5) A1SJCPU/-S3, A1SJHCPU → R35B



(6) A1S68B → R68B



(7) A1S65B → R65B



(8) A1S58B → R68B

