

General Specifications

A2EN402, A2EN404
N-ESB Bus Coupler Module
(for N-IO, 2-Port/4-Port)



GS 33J62E50-01EN

[Release 6]

■ GENERAL

The N-ESB bus coupler module has an N-ESB bus interface to connect a Field Control Unit (FCU) to an N-IO node (*1) via an N-ESB bus.

A2FV50□, A2FV70□, ANB10□, ANB11□, and ANT10U can also be constructed by combining the Base Plate and each module. Refer to "N-IO System Overview" (GS 33J62A10-01EN) and "Field Control Unit" (GS 33J64E10-01EN).

*1: An N-IO node consists of Node Interface Unit and N-IO I/O Unit. When using A2EN40□ with A2FV50□, refer to the GS "N-IO System Overview" (GS 33J62A10-01EN). When using A2EN40□ with A2FV70□, refer to the GS "N-IO Node for RIO System Upgrade" (GS 33J64F10-01EN).

■ STANDARD SPECIFICATIONS

● N-ESB Bus Interface

Connection: A2EN402 and A2EN404 have two and four N-ESB bus communication ports, respectively, on the front of the modules. A pair of A2EN40□ installed in an odd-numbered slot and even-numbered slot of A2FV50□ or A2FV70□ shall be connected to N-ESB bus 1 and bus 2, respectively.

Transmission cable: Unshielded twist-pair (UTP) with enhanced category 5 or superior

Connector: RJ-45 connector (ISO/IEC8877-compliant)

Transmission speed: 100 Mbps

Transmission distance: Max. 100 m (between a FCU and a N-IO node, or between N-IO nodes)

When using A2EN40□ with A2FV50□, for details of N-ESB bus specifications, refer to the GS "N-IO System Overview" (GS 33J62A10-01EN).

When using A2EN40□ with A2FV70□, for details of N-ESB bus specifications, refer to the GS "Field Control Unit, Cabinet Utility Kit (for RIO System Upgrade)" (GS 33J64E10-01EN).

● Installation Limitations

A pair of A2EN40□ shall be installed in A2FV50□ or A2FV70□ and always be used in a dual-redundant configuration. For the installation limitations for A2FV50□, refer to the GS "A2FV50□ Field Control Unit" (GS 33J62E10-01EN). For the installation limitations for A2FV70□, refer to the GS "Field Control Unit, Cabinet Utility Kit (for RIO System Upgrade)" (GS 33J64E10-01EN).

● Current Consumption

0.5 A

● Weight

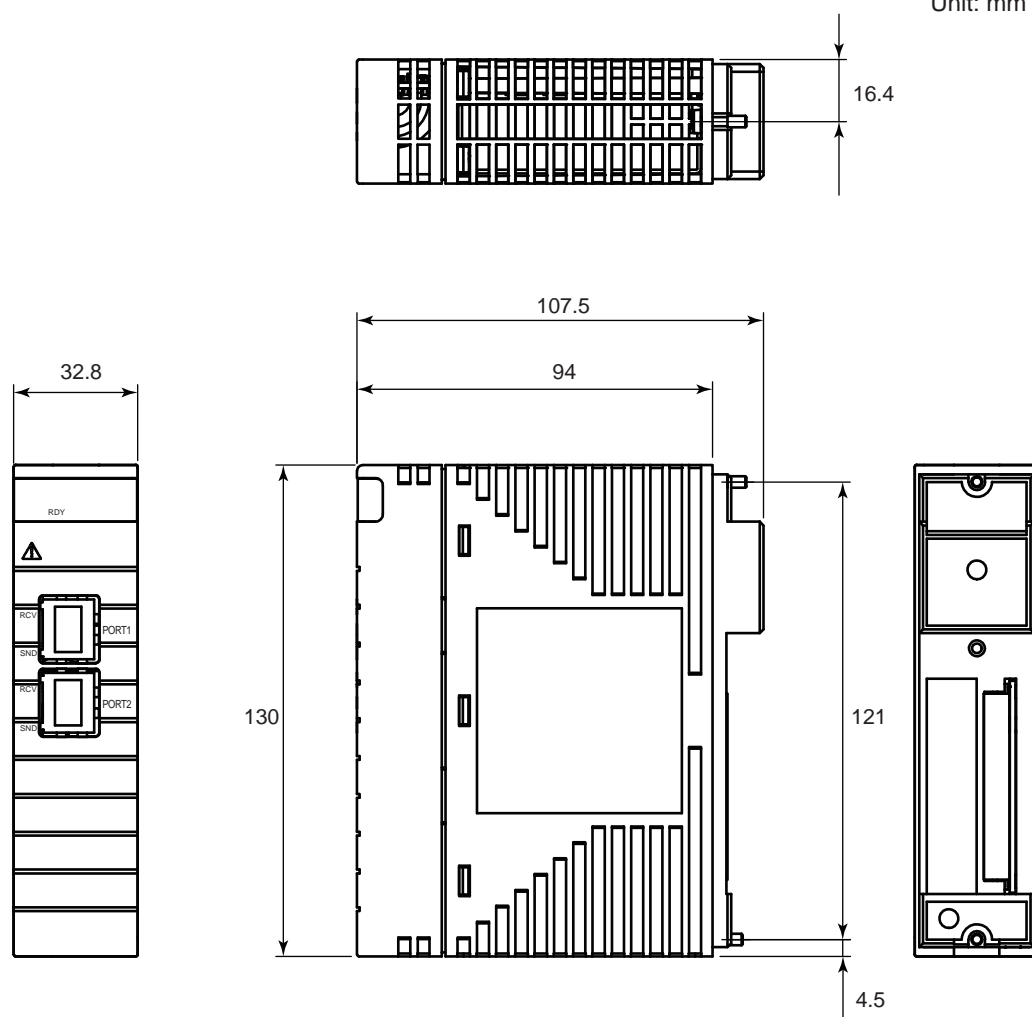
A2EN402: Approx. 0.22 kg

A2EN404: Approx. 0.22 kg

■ EXTERNAL DIMENSION

A2EN402 N-ESB Bus Coupler Module (for N-IO, 2-Port)

Unit: mm



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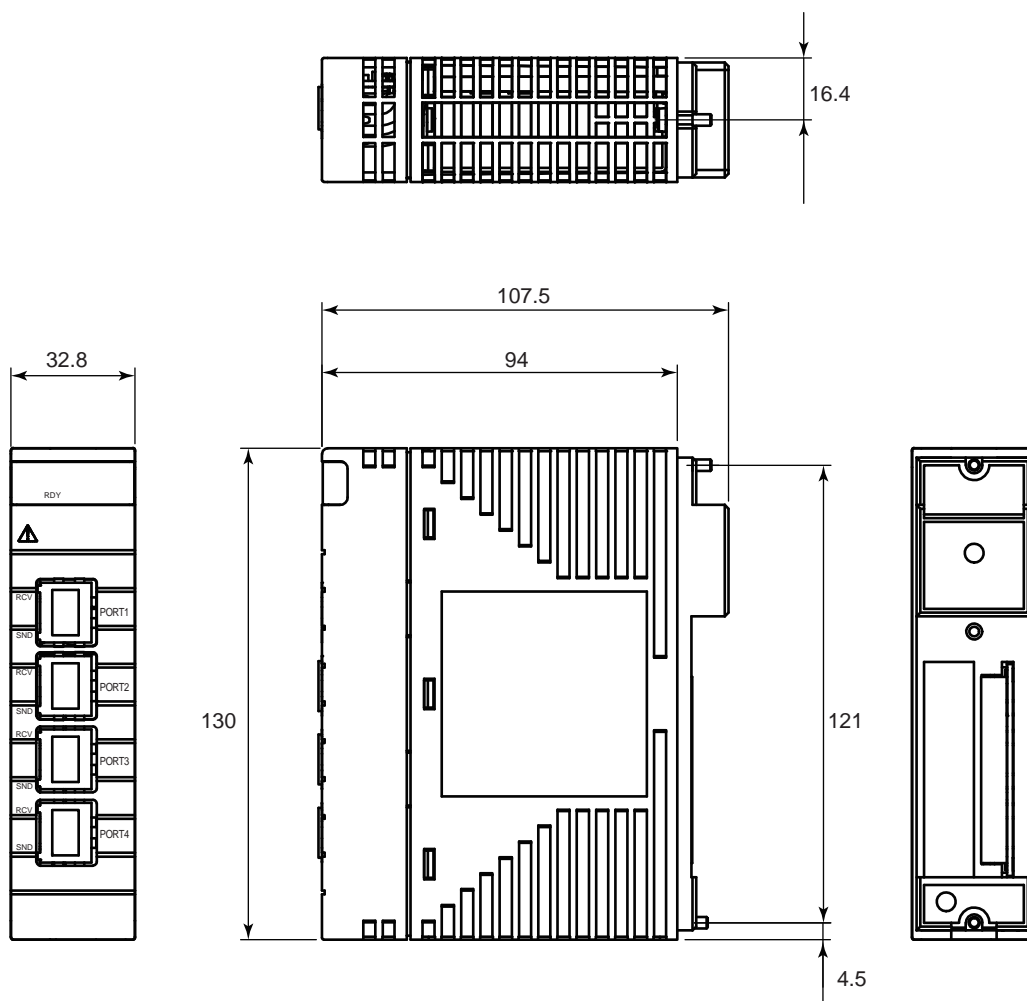
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

A2EN404 N-ESB Bus Coupler Module (for N-IO, 4-Port)

Unit: mm



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Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

■ MODEL AND SUFFIX CODES

N-ESB Bus Coupler Module (2-Port)

		Description
Model	A2EN402	N-ESB Bus Coupler Module (for N-IO, 2-Port)
Suffix Codes	-S	Standard type
	0	Always 0
	0	Always 0
	0	With no explosion protection
	1	With explosion protection
	0	Basic type
	1	With ISA Standard G3 option

N-ESB Bus Coupler Module (4-Port)

		Description
Model	A2EN404	N-ESB Bus Coupler Module (for N-IO, 4-Port)
Suffix Codes	-S	Standard type
	0	Always 0
	0	Always 0
	0	With no explosion protection
	1	With explosion protection
	0	Basic type
	1	With ISA Standard G3 option

■ APPLICABLE STANDARDS

Refer to the GS "Integrated Production Control System CENTUM VP System Overview" (GS 33J01A10-01EN).

■ ORDERING INFORMATION

Specify models and suffix codes when ordering.

For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E without fail.

■ TRADEMARK ACKNOWLEDGMENT

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