

MITSUBISHI

QnA Series Ethernet Interface Module

User's Manual
(Hardware)

AJ71QE71N3-T, A1SJ71QE71N3-T
AJ71QE71N-B5, A1SJ71QE71N-B5
AJ71QE71N-B2, A1SJ71QE71N-B2

Thank you for buying the Mitsubishi general-purpose programmable controller MELSEC-QnA Series

Prior to use, please read both this manual and detailed manual thoroughly and familiarize yourself with the product.



MODEL	AJ71QE71N-U-HW
MODEL CODE	13JP68
IB(NA)-0800309-B(1112)MEE	

● SAFETY PRECAUTIONS ●

(Read these precautions before using this product.)

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

In this manual, the safety precautions are classified into two levels:
"⚠ WARNING" and "⚠ CAUTION".



WARNING

Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.



CAUTION

Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "⚠ CAUTION" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety.

Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

[DESIGN PRECAUTIONS]

WARNING

- When controlling (changing data, program or operation status (remote RUN/ STOP) in particular) a PLC while it is running via a device such as a personal computer connected to the special function module, configure an interlock circuit in the sequence program so that the safety of the overall system is always maintained. Especially, when performing the above control for a remote PLC from an external device, troubles occurring on the PLC side due to data communication error may not be handled immediately. Determine error handling methods between the external device and the PLC CPU for when data communication errors occur, in configuring an interlock circuit in the sequence program.

[DESIGN PRECAUTIONS]

CAUTION

- When laying the control wire or communication cable, do not bundle with or place near main circuit or power line.
Keep them at least 100 mm (3.94 in.) away from such cables.
Noise may cause erroneous operation.

[INSTALLATION PRECAUTIONS]

CAUTION

- Use the PLC in the environment given in the general specifications section of the user's manual to be used. Using the PLC outside the range of the general specifications may result in electric shock, fire, or erroneous operation or may damage or degrade the product.
- Make sure to switch off all phases of the external power supply used by the system before installing or placing wiring. Not doing so could result in electric shock or damage to the product.
- Insert the fixing latch on the bottom of the module into the fixing hole in the base unit and install the module using the hole point as a fulcrum. (The Q2AS series module shall be fastened by screws in the base unit at the specified torque.)
Not installing the module correctly could result in erroneous operation, damage, or pieces of the product falling.
- Tighten the screw within the range of specified torque.
If the screws are loose, it may result in fallout, short circuits or malfunction.
Tightening the screws to far may cause damage to the screw and/or the module, resulting in fallout, short circuits or malfunction.
- Shut off all phases of the external power supply in the system before mounting or dismounting the module.
If you do not switch off the external power supply, it will cause electric shock or damage to the product.
- Do not touch the electronic parts or the module conducting area directly.
It may cause erroneous operation or failure.

[WIRING PRECAUTIONS]

CAUTION

- Do not connect the AUI cables when the module installation station's power is turned on.
- Perform correct pressure-displacement, crimp-contact or soldering for external wire connections using the tools specified by the manufactures. Incorrect connection may cause short circuits, fire or malfunction.
- Perform correct pressure-displacement, crimp-contact or soldering for wire connections using the tools specified by the manufactures. Attach connectors to the module securely.
- Be sure to fix communication cables or power supply cables leading from the module by placing them in the duct or clamping them. Cables not placed in the duct or without clamping may hang or shift, allowing them to be accidentally pulled, which may cause a module malfunction and cable damage.
- Tighten the screw within the range of specified torque. If the screws are loose, it may result in short circuits or malfunction. Tightening the screws to far may cause damage to the screw and/or the module, resulting in fallout, short circuits or malfunction.
- Do not grab on the cable when removing the communication cable connected to the module.
When removing the cable with a connector, hold the connector on the side that is connected to the module.
When removing the cable connected to the terminal block, first loosen the screws on the part that is connected to the terminal block.
Pulling the cable that is still connected to the module may cause a malfunction or damage to the module or cable.
- Solder coaxial cable connectors properly. Insufficient soldering may cause malfunction.
- Be sure that cuttings, wire chips, or other foreign matter do not enter the module.
Foreign matter may start a fire or cause an accident or erroneous operation.

[STARTING AND MAINTENANCE PRECAUTIONS]

WARNING

- Do not touch the connector while the power is on.
Doing so could cause malfunction.
- Make sure to switch off all phases of the external power supply used by the system before cleaning or re-tightening screws. Otherwise, it will cause failure or malfunctions of the module, if the screws are loose, it may result in fallout, short circuits, or malfunctions. Tightening the screws too far may cause damage to the screw and/or the module, resulting in fallout, short circuits, or malfunctions.

CAUTION

- Do not disassemble or modify the modules.
Doing so could cause trouble, malfunction, injury, or fire.
- Make sure to switch off all phases of the external power supply used by the system before mounting or removing the module. Otherwise, it will cause failure or malfunction of the module.
- Always make sure to touch the grounded metal to discharge the electricity charged in the body, etc., before touching the module.
Failure to do so may cause a failure or malfunctions of the module.

[OPERATING PRECAUTIONS]

WARNING

- Do not write data in the "system area" in the buffer memory of the special function module. Also, of the output signals directed to the special function module from the PLC CPU, do not output (switch ON) the signals that are "use-prohibited."
If data is written to the "system area" or output is performed with respect to a "use-prohibited" signal, it may result in the malfunction of the PLC system.

[OPERATING PRECAUTIONS]

CAUTION

- Before performing the control of the PLC in operation (especially changing data, program, and operation status (remote RUN/STOP)) by connecting a personal computer, etc. to the special function module, read the manual carefully and confirm if the overall safety is maintained.
Failure to perform correct operations to change data, program, or operation status may result in system malfunctioning, machine damage, or an accident.
- Remote RUN/STOP for the PLC CPU of the main module connection station (local station) is recommended after carefully reading the manual and being conducted under the following conditions.
 - (1) Start the main module using the automatic start mode.
 - (2) Control remote RUN/STOP using the main module automatic open UDP port.
 - (3) A data exchange function is used while the PLC CPU is stopped.
If this cannot be done, use the TCP/UDP port that the user uses to conduct open processing to conduct remote RUN/STOP. Conducting a remote stop turns the output signal from the PLC CPU to the main module off, so the communication line is disconnected (close processing). In this case, thereafter all data exchange cannot be done including PLC CPU remote RUN/STOP from the remote node.
- When using the module while values, such as buffer memory set values, are registered in the EEPROM, do not turn off the power supply for the module loading station nor reset the PLC CPU.
If the power supply for the module loading station is turned off or the PLC CPU is reset while any values are registered, the data contents in the EEPROM become inconsistent and as a result the values must be set again in the buffer memory, etc. and reregistered to the EEPROM. Also this may cause failure and malfunctions of the module.

[DISPOSAL PRECAUTIONS]

CAUTION

- When disposing of this product, treat it as industrial waste.

● CONDITIONS OF USE FOR THE PRODUCT ●

- (1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
- i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
 - ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.
- (2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.
MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT.
("Prohibited Application")
Prohibited Applications include, but not limited to, the use of the PRODUCT in;
- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
 - Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
 - Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTS are required. For details, please contact the Mitsubishi representative in your region.

REVISIONS

*The manual number is given on the bottom right of the cover.

Print Date	*Manual Number	Revision				
Dec.,2004	IB(NA)-0800309-A	First edition				
Dec.,2011	IB(NA)-0800309-B	<table border="1"><tr><td>Correction</td></tr><tr><td>SAFETY PRECAUTIONS, COMPLIANCE WITH EMC AND LOW VOLTAGE DIRECTIVES</td></tr><tr><td>Addition</td></tr><tr><td>SAFETY PRECAUTIONS(Chinese), CONDITIONS OF USE FOR THE PRODUCT</td></tr></table>	Correction	SAFETY PRECAUTIONS, COMPLIANCE WITH EMC AND LOW VOLTAGE DIRECTIVES	Addition	SAFETY PRECAUTIONS(Chinese), CONDITIONS OF USE FOR THE PRODUCT
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Addition						
SAFETY PRECAUTIONS(Chinese), CONDITIONS OF USE FOR THE PRODUCT						

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About the Manuals

The following product are available for this equipment.
Refer to the table given below to choose suitable manuals.

Detailed Manual

Manual name	Manual No. (Model code)
For QnA Ethernet Interface Module User's Manual	SH-080146 (13JR33)

Related Manual

Manual name	Manual No. (Model code)
For A Ethernet Interface Module User's Manual	SH-080192 (13JR45)

COMPLIANCE WITH EMC AND LOW VOLTAGE DIRECTIVES

(1) Method of ensuring compliance

To ensure that Mitsubishi programmable controllers maintain EMC and Low Voltage Directives when incorporated into other machinery or equipment, certain measures may be necessary. Please refer to one of the following manuals.

- User's manual for the CPU module used
- User's manual (hardware) for the CPU module or base unit used

The CE mark on the side of the programmable controller indicates compliance with EMC and Low Voltage Directives.

(2) Additional measures

To ensure that this product maintains EMC and Low Voltage Directives, please refer to one of the manuals listed under (1).

1. Overview

This manual explains how to install the following Ethernet interface modules (abbreviated as QE71 hereafter) for QnA series PLC CPU and how to wire them with external devices.

After unpacking QE71, verify that the following parts are contained.

Model name	Product name	No. of items
AJ71QE71N3-T	AJ71QE71N3-T type Ethernet Interface Module	1
AJ71QE71N-B5	AJ71QE71N-B5 type Ethernet Interface Module	1
AJ71QE71N-B2	AJ71QE71N-B2 type Ethernet Interface Module	1
	F type Connector (A6RCON-F)	1
A1SJ71QE71N3-T	A1SJ71QE71N3-T type Ethernet Interface Module	1
A1SJ71QE71N-B5	A1SJ71QE71N-B5 type Ethernet Interface Module	1
A1SJ71QE71N-B2	A1SJ71QE71N-B2 type Ethernet Interface Module	1
	F type Connector (A6RCON-F)	1

2. Performance Specifications

The performance specifications of QE71 is shown below. See CPU module user's manual to be used for QE71 general specifications.

Item		Specifications
		AJ71QE71N3-T A1SJ71QE71N3-T
		10BASE-T
Transmission specifications	Data transmission speed	10 Mbps
	Communication mode	Half-duplex
	Transmission method	Base band
	Maximum distance between nodes	—
	Maximum segment length	100 m (328.08 ft.) (*1)
	Maximum number of nodes/connection	Cascade connection is a maximum 4 stages
	Minimum node interval	—
Transmission data storage memory	Number of allowable simultaneously open connections	8 connections (Connections usable by the sequence program)
	Fixed buffer	1 k word × 8
	Random access buffer	6 k word × 1
Number of remote nodes that can be communicated in a single initial processing		No restrictions
EEPROM write frequency		Maximum of 10,000 times in the same area
Number of occupied I/O points		32 points /1 slot (I/O assignments : special 32 points)
5 V DC internal current consumption		AJ71QE71N3-T : 0.53A A1SJ71QE71N3-T : 0.53A
Connector		Modular jack (RJ45)
Connection cable		Unshielded twisted pair cable (UTP), or shielded twisted pair cable (STP) rated in category 3, 4 or 5
12 V DC external power supply capacity (for transceiver)		—
External dimensions		AJ71QE71N3-T : 250 (9.84) (H) × 37.5 (1.48) (W) × 106 (4.17) (D) [mm (in.)] A1SJ71QE71N3-T : 130 (5.12) (H) × 34.5 (1.36) (W) × 94 (3.70) (D) [mm (in.)] • All do not include the protruded section on the front surface.
Weight		AJ71QE71N3-T : 0.30 kg (0.66lb.) A1SJ71QE71N3-T : 0.18 kg (0.37lb.)

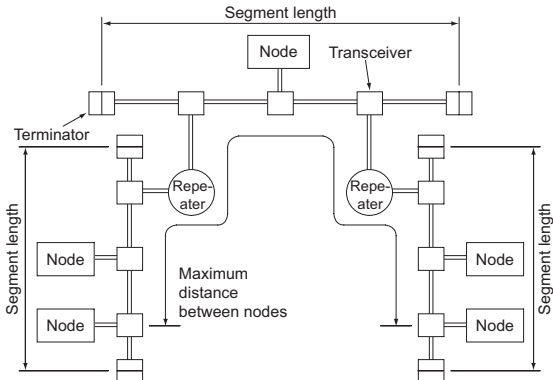
Item		Specifications	
		AJ71QE71N-B5 A1SJ71QE71N-B5	AJ71QE71N-B2 A1SJ71QE71N-B2
		10BASE5	10BASE2
Transmission specifications	Data transmission speed	10 Mbps	
	Communication mode	Half-duplex	
	Transmission method	Base band	
	Maximum distance between nodes	2500 m (8202.10 ft.)	925 m (3034.77 ft.)
	Maximum segment length	500 m (1640.42 ft.)	185 m (606.96 ft.)
	Maximum number of nodes/connection	100 nodes per segment	30 nodes per segment
	Minimum node interval	2.5m (8.20 ft.)	0.5m (1.64 ft.)
Transmission data storage memory	Number of allowable simultaneously open connections	8 connections (Connections usable by the sequence program)	
	Fixed buffer	1 k word × 8	
	Random access buffer	6 k word × 1	
Number of remote nodes that can be communicated in a single initial processing	No restrictions		
EEPROM write frequency	Maximum of 10,000 times in the same area		
Number of occupied I/O points	32 points /1 slot (I/O assignments : special 32 points)		
5 V DC internal current consumption	AJ71QE71N-B5 : 0.40A A1SJ71QE71N-B5 : 0.40A	AJ71QE71N-B2 : 0.56A A1SJ71QE71N-B2 : 0.53A	
Connector	D-sub connector (Male 15-pin)	BCN connector	
Connection cable	AUI cable (Twisted pair cable)	Coaxial Cable (RG58A/U, RG58C/U)	
12 V DC external power supply capacity (for transceiver)	(*2)	—	
External dimensions	AJ71QE71N-B5, AJ71QE71N-B2 : 250 (9.84) (H) × 37.5 (1.48) (W) × 106 (4.17) (D) [mm (in.)] A1SJ71QE71N-B5, A1SJ71QE71N-B2 : 130 (5.12) (H) × 34.5 (1.36) (W) × 94 (3.70) (D) [mm (in.)] • All do not include the protruded section on the front surface.		
Weight	AJ71QE71N-B5 : 0.33kg (0.73lb.) A1SJ71QE71N-B5 : 0.19kg (0.42lb.)	AJ71QE71N-B2 : 0.35kg (0.77lb.) A1SJ71QE71N-B2 : 0.20kg (0.44lb.)	

*1 Length between hub and node.

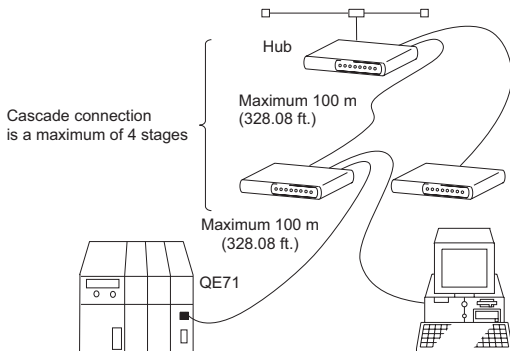
- *2 It is required to use the one that satisfies the specifications of the transceiver and the AUI cable. Also, for the AJ71QE71N-B5, the voltage drop (Max. 0.8V) must be taken into account.

Notes

- (1) Each item in the transmission specifications gives supplementary explanation.
- When connected by 10BASE2, 10BASE5

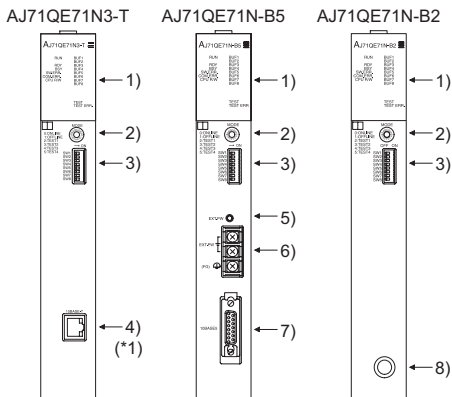


- When connected by 10BASE-T

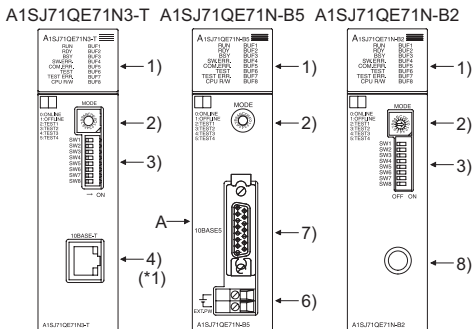
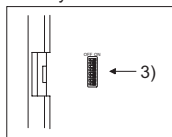


- (2) Hardware specifications for QE71 are based on IEEE802.3.

3. Settings and Names of Each Part



Side view indicated
by arrow A



No.	Designation	Contents
1)	Display LED	Refer to (1)
2)	Operation mode setting switch	Refer to (2)
3)	Exchange condition setting switch	Refer to (3)
4)	10BASE-T connector (RJ45)	Connector for connecting the QE71 to the 10BASE-T.
5)	External power supply indicator lamp	Lamp for verifying if power is being supplied to the transceiver. ON: Power supplying OFF: Power not supplied
6)	External power supply terminal	Power source terminals for power source supply to the transceiver AJ71QE71N-B5 : 14.08V to 15.75V A1SJ71QE71N-B5 : 13.28V to 15.75V
7)	AUI cable connector	Connector for connecting the QE71 to the 10BASE5. (For connection of 10BASE5-use AUI cable (transceiver cable))
8)	10BASE2 connector	Connector for connecting the QE71 to the 10BASE2.

(1) Display LED display contents

Display LED	Display contents	When lamp is lit	Lamp is not lit
RUN	Normal operation display	Normal	Error
RDY	Exchange ready end display	Starts flashing when On-line Operations begin	
BSY	Exchange processing executing display	Turns on when exchange processing with remote node is being executed.	
SW.ERR.	CPU error, CPU type error display	Error	Normal
COM.ERR.	Exchange error detection display	Exchange error	Normal
CPU R/W	Exchange processing executing with PLC CPU display	Exchanging	Not exchanging
BUF1 to BUF8	Display of communication line connection status of connection No.n corresponding to BUFn.	Open completed	Closed status
TEST	Self diagnostic executing display	Self diagnosis executing	Self diagnosis completed
TEST ERR.	Self diagnosis results display	Error	Normal

(3) Communications exchange condition setting switch setting
Set the conditions for data communication with other nodes.

Communications exchange condition setting switch	Switch	Setting designation	Setting contents																
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">OFF ON</div> <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">SW1</td><td style="width: 50%; text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW2</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW3</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW4</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW5</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW6</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW7</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td style="text-align: center;">SW8</td><td style="text-align: center;"><input type="checkbox"/></td></tr> </table> </div> </div>	SW1	<input type="checkbox"/>	SW2	<input type="checkbox"/>	SW3	<input type="checkbox"/>	SW4	<input type="checkbox"/>	SW5	<input type="checkbox"/>	SW6	<input type="checkbox"/>	SW7	<input type="checkbox"/>	SW8	<input type="checkbox"/>	SW1	Line processing selection during TCP timeout error	Selects the line processing when the TCP ULP time out error occurrence. (*1) OFF Close the circuit. ON Do not close the circuit.
	SW1	<input type="checkbox"/>																	
	SW2	<input type="checkbox"/>																	
	SW3	<input type="checkbox"/>																	
	SW4	<input type="checkbox"/>																	
	SW5	<input type="checkbox"/>																	
	SW6	<input type="checkbox"/>																	
	SW7	<input type="checkbox"/>																	
	SW8	<input type="checkbox"/>																	
	SW2	Data code setting	Selects the type of data code for exchanging data with the remote node. OFF Conducts exchange in binary code. ON Conducts exchange in ASCII code.																
	SW3	Automatic start up mode setting (Self start mode setting)	Select the QE71 startup method OFF Runs following Y19 (initial processing request signal). ON Reads the parameters in the EEPROM buffer memory regardless of the Y19 after power has been turned on or the module reset and then conducts initial processing of the contents.																
	SW4 to SW6	—	Usage not possible (Fixed to OFF)																
	SW7	CPU exchange timing setting	Selects whether to approve or forbid data arriving from the remote node when a PLC CPU is running. OFF Writing prohibited. ON Writing approved.																
	SW8	Initial timing setting	Selects the initial processing starts up timing. (*2) OFF Quick start (starts without a delay time)---Set when one network is used for the entire configuration. ON Normal start (start after a delay of 20 seconds)---Use when the entire configurations is made up of multiple networks.																

(This is set at "OFF" at the time of shipping from factory.)

- *1 Set to OFF for normal use.
When a TCP ULP time out error (error code: C032H) occurs due to data transfer from remote node while this switch is set to ON, run the close and open operations with the sequence program.
- *2 Set to OFF for normal use.

4. Loading and Installation

The following is explanations of the handling precautions and installation environment which is common to modules when handling QE71 from unpacking to installation.

For the details of loading and installation of the module, refer to User's Manual of CPU module to be used.

4.1 Handling Precautions

The following is an explanation of handling precautions of the module.

- (1) Because the case of the module is made of resin, be careful not to drop it or expose it to strong impact.
- (2) Always make sure to touch the grounded metal to discharge the electricity charged in the body, etc., before touching the module. Failure to do so may cause a failure or malfunctions of the module.
- (3) Execute tightening of the module's installation screws within the range indicated below.

Screw position	Tightening torque range
External power supply terminal screw (*1)	AJ71QE71N-B5 : 98 to 137 N·cm (M4 screw) A1SJ71QE71N-B5 : 40 N·cm(M2.5 screw)
Module fixing screw	78 to 118 N·cm (M4 screw)

- *1 This terminal is used as an external power input terminal for supplying power to the transceiver when being connected to a 10BASE5.

4.2 Installation Environment

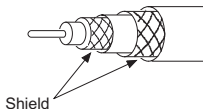
Refer to User's Manual of CPU module to be used.

5. Connection to a Network

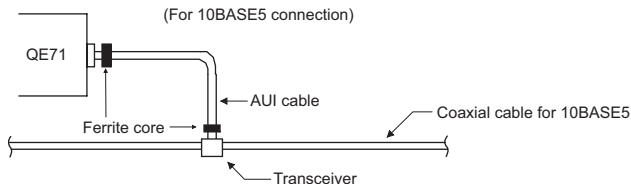
The following is an explanation of the connection method of the QE71 to the 10BASE-T, 10BASE5 or the 10BASE2.

Point

- (1) Installation procedures of the network require sufficient safety measures. For the execution of such operations as terminal processing of connection cable, trunk line cable etc., please consult with a trained professional.
- (2) When the customer's products match the EMC instructions and the low voltage instructions for connecting QE71, use the method in (4) below to install the ferrite core.
- (3) When there is a communication error caused by high frequency noise due to the installation environment, take the following steps.
 - The ferrite core can be installed using the steps in (4) below.
 - When communicating with TCP/IP, increase the count of communication retries.
 - When connecting to 10BASE-T, use a shielded twisted pair cable (STP) rated in category 3, 4 or 5.
 - When connecting to 10BASE2, use a double shielded coaxial cable.

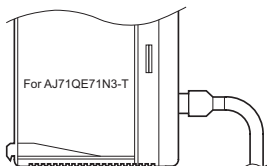


- When connecting to 10BASE5 or 10BASE2, ground the shield of the coaxial cable at both the local station and companion connected device. (Ground at a place near the connector.)
- (4) Below are the steps for installing the ferrite core based on connection to the 10BASE5 network.
Please install the ferrite core (*1) on the side of the QE71 or external devices / the AUI cables transceiver.
*1 It is possible to use a TDK Corporation style ZCAT 2032-0930.



- (5) When using A1SJ71QE71N-B5, when the FG signal is regulated on the side of the external power supply of the original power supply for the transceiver, ground the FG signal at the original power supply.

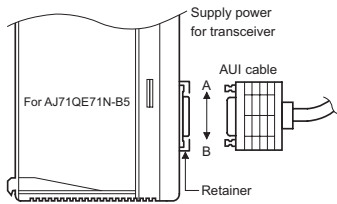
5.1 Connecting to the 10BASE-T (AJ71QE71N3-T, A1SJ71QE71N3-T)



<Connection procedure>

- 1) Connect the twisted pair cable and the hub.
- 2) Connect the twisted pair cable to the QE71.

5.2 Connecting to the 10BASE5 (AJ71QE71N-B5, A1SJ71QE71N-B5)



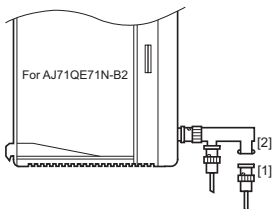
<Connection procedure> (*1)

- 1) Slide the retainer toward the direction A as shown in the figure.
- 2) Push in the AUI cable connector all the way.
- 3) Slide the retainer toward the direction B as shown in the figure.
- 4) Confirm that the AUI cable is locked.
- 5) Supply power to the transceiver (*2). (Refer to *2 in Chapter 2)

*1 Connect the AUI cable while the power to the module mounting station is turned off.

*2 Use a transceiver with a function that is generally called SQETEST or heart beat (a transceiver function that emits signals to notify whether the transceiver is operating normally at the end of communication).

5.3 Connecting to the 10BASE2 (AJ71QE71N-B2, A1SJ71QE71N-B2)

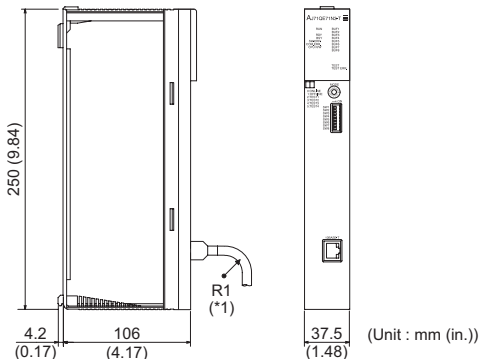


<Connection procedure> (*2)

- 1) Push in the connector by aligning the groove [1] and tab [2] as shown in the figure.
- 2) While pushing in the connector, rotate it clockwise by a 1/4 turn.
- 3) Turn until the connector locks.
- 4) Confirm that the connector is locked.

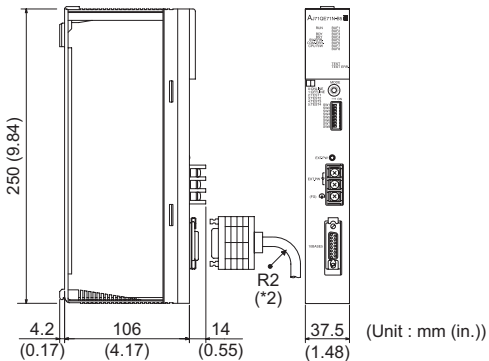
6. External Dimensions

(1) AJ71QE71N3-T



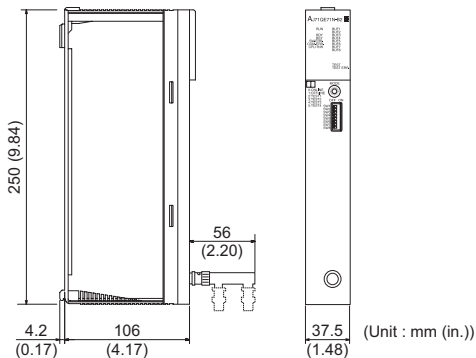
- *1 When connecting the twisted pair cable, make the bend radius (R1: scale value) in the vicinity of the connector to (cable outside diameter × 4) or more.

(2) AJ71QE71N-B5

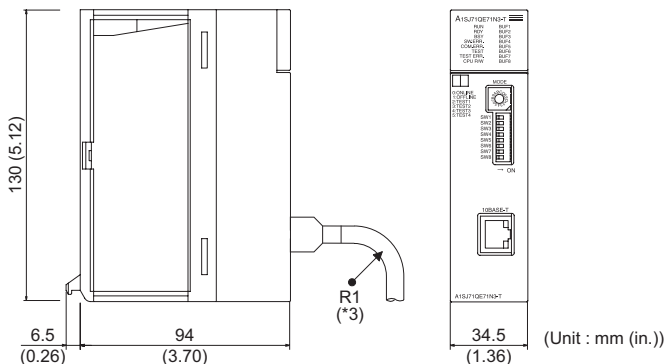


- *2 When connecting the AUI cable, make the bend radius (R2: scale value) in the vicinity of the connector to (cable outside diameter × 4) or more.

(3) AJ71QE71N-B2

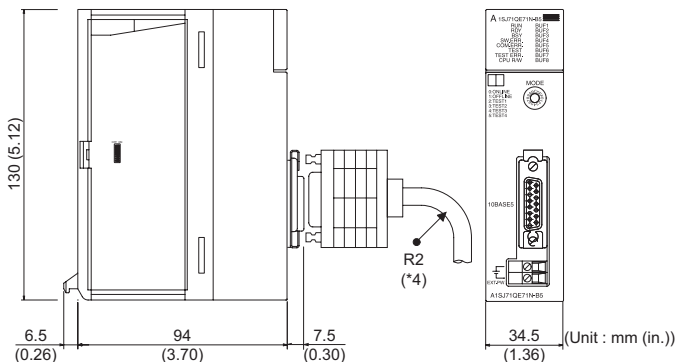


(4) A1S71QE71N3-T



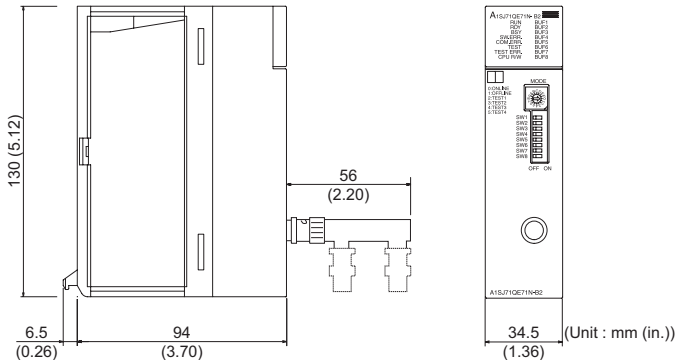
*3 When connecting the twisted pair cable, make the bend radius (R1: scale value) in the vicinity of the connector to (cable outside diameter × 4) or more.

(5) A1SJ71QE71N-B5



*4 When connecting the AUI cable, make the bend radius (R2: scale value) in the vicinity of the connector to (cable outside diameter × 4) or more.

(6) A1SJ71QE71N-B2



Ethernet is the registered trademark of XEROX CO., LTD.
 10BASE2 is the formal way to say Cheapernet.
 There is no registered trademark for Cheapernet.

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