



# Network Controller **ROBO NET**

DeviceNet

CC-Link

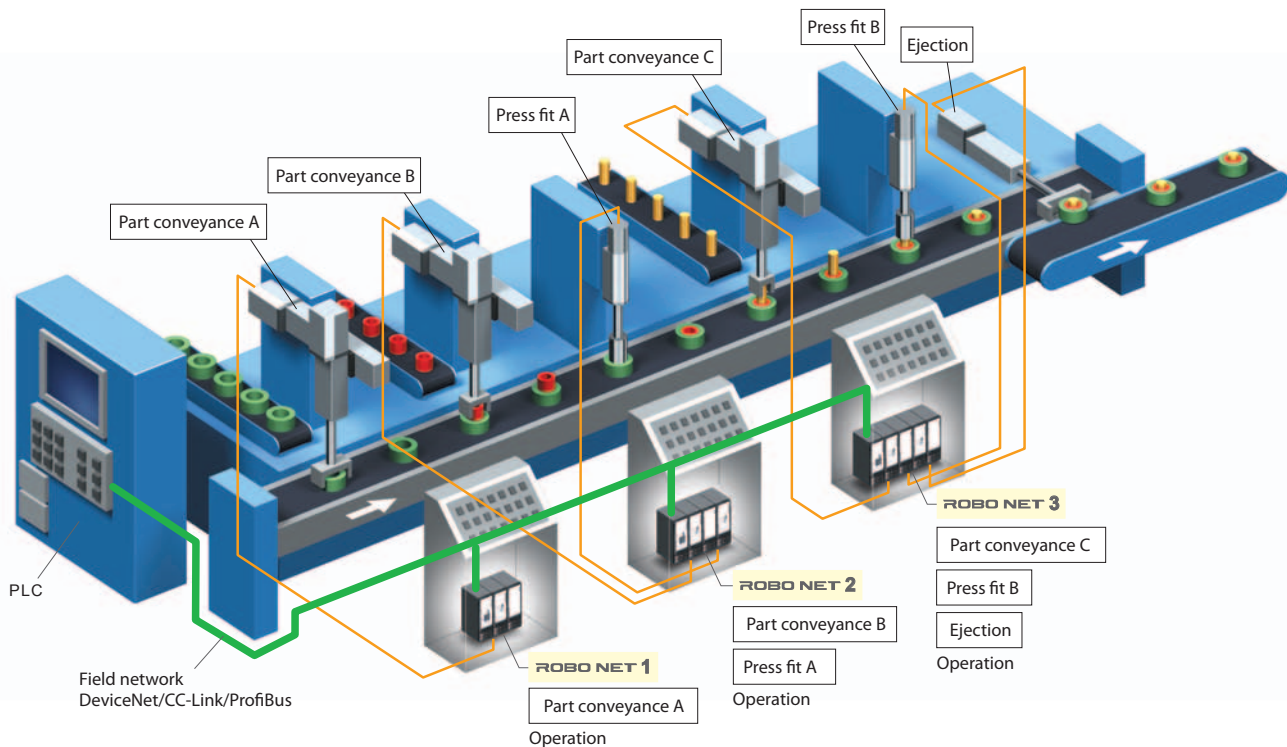
SIO

Profibus



# Greatly reduces time and effort of wiring and installation

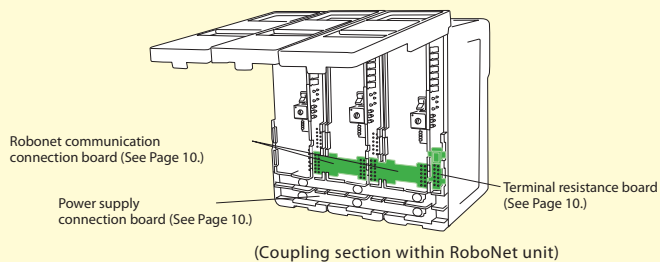
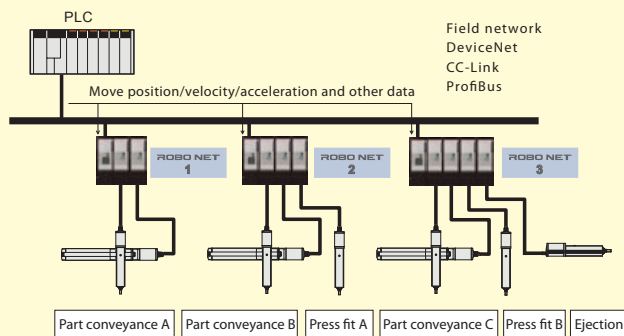
RoboNet is a new type of controller unit that can freely operate robot cylinders via a field network. This makes it possible to greatly reduce the time and effort of wiring installation compared to conventional controllers by reducing wiring, making the controller smaller, and using DIN rail installation.



## 1 Reduced wiring

By connecting each line of the I/O cable to lines wired to the PLC terminals with the field network, wiring processing is completed with one dedicated cable.

Also, since the unit can be coupled by just connecting with the unit connection board, the controller wiring work is greatly simplified.



# Newly Developed Network Controller

## ROBO NET Arrives!

### 2 The robot can be moved by directly specifying numeric values for the move position/velocity/acceleration and other data.

Besides the conventional method of moving the robot to pre-taught positions it is also possible to operate the robot by sending information as a string of numeric data that contains position, velocity, acceleration, etc. values. This is effective for cases such as when the move position changes with each piece or when one wants to move the robot to an arbitrary position.

	ROBONET controller	Standard controller (ACON/PCON)
Position specification movement	○	○
Direct numeric value specification movement	○	△
Velocity/acceleration specification	○	(Not possible with PIO) (Possible with serial communications)
Current value output	○	

\* RoboNet operates via the field network; the standard controller operates with PIO.

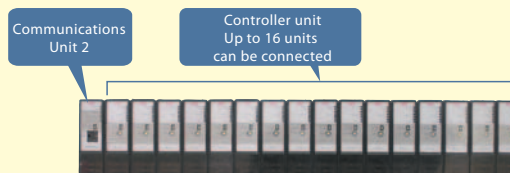
### 3 Ultra-compact

Each unit is an ultra-compact size of 34mm wide by 100mm high x 73 mm deep. Also, since there is no base unit and the main unit is coupled with connectors, the controller takes up little space for installation even if there are many units.



### 4 Can operate up to 16 axes

Up to 16 controller units can be connected to one communications unit (GatewayR unit). One can also freely mix and connect RACON units (RCA controllers) and RPCON units (RCP2 controllers).



### 5 Simple absolute specifications that do not require a return to home position

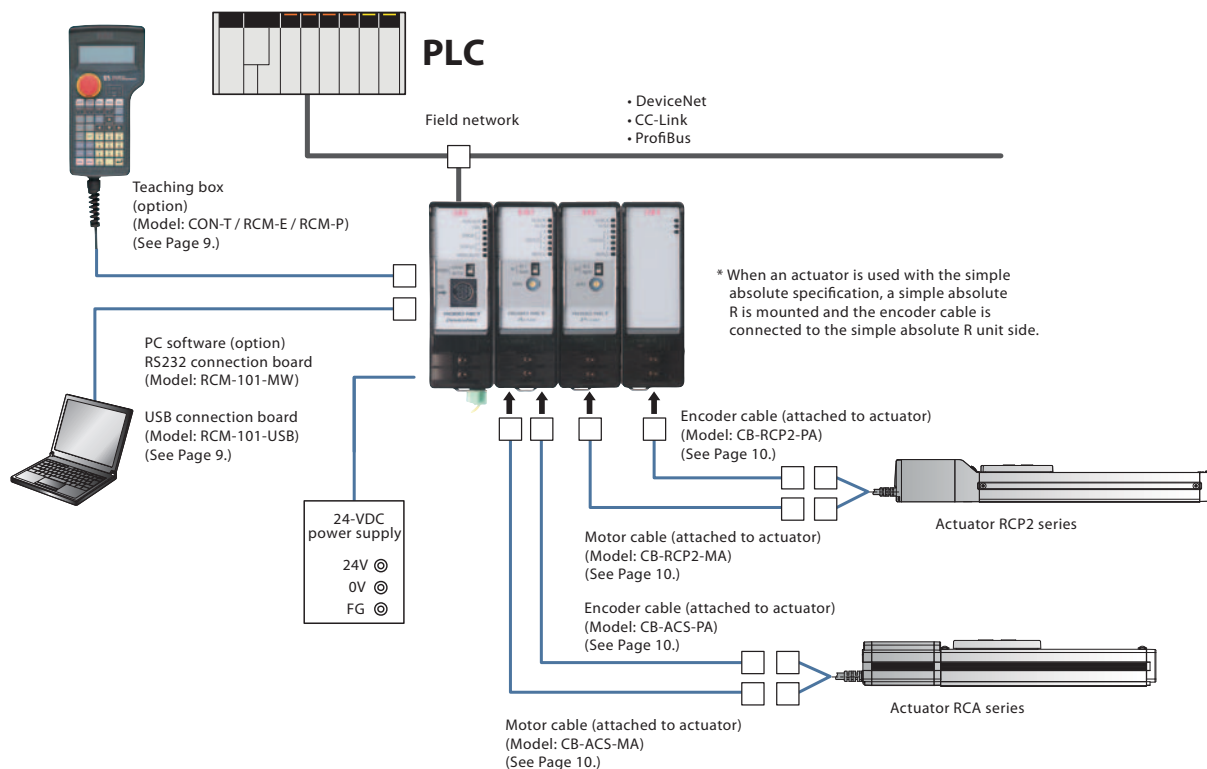
The simple absolute R unit makes it possible to operate incremental specification axes without returning to the home position. By mounting a simple absolute R unit on a RACON unit (RCA controller)/RPCON unit (RCP2 controller), the actuator encoder data is backed up even if the power is cut off.



### 6 DIN rail installation

The controller is installed with DIN rails, so it can be fastened and removed with one touch.

### System configuration



### Component unit/ordering method explanation

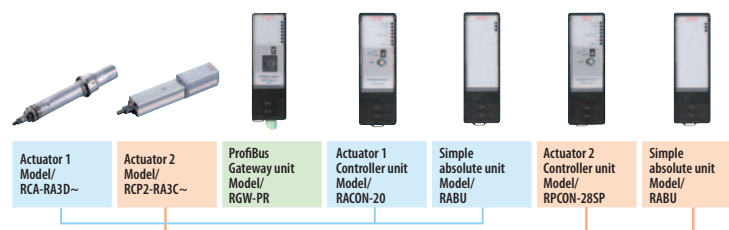
For RoboNet, you order the required units individually and use them together freely. Even if you want to add actuators later, you can do so simply by ordering additional RACON/RPCON units.



Unit name	Contents	See Page _
Gateway R unit	This unit is for connection to the field network. There are four types to select from: DeviceNet/CC-Link/Profibus/SIO. *This unit is a required unit for using RoboNet.	P5 P6
RACON unit	This is the controller unit for operating an RCA actuator. (Each actuator axis requires one unit.) The standard specifications are the incremental specifications, but this unit can be used with the simple absolute specifications by just combining with a simple absolute R unit.	P7
RPCON unit	This is the controller unit for operating an RCP2 actuator. (Each actuator axis requires one unit.) The standard specifications are the incremental specifications, but this unit can be used with the simple absolute specifications by just combining with a simple absolute R unit.	P7
Simple absolute R unit	This is the backup battery unit for holding the actuator encoder data when the power is switched Off.	P8
Extension unit	This is an extension unit for placing many ROBONET units in two lines. Also for operating single controllers such as SCON or PCON-CF on network.	P8

**Order method** RoboNet is used by ordering the necessary units one by one and using them together. This means you can add or change units afterwards.

(Order example) Operating the two actuator axes below via Profibus. The models for operating with absolute specifications are as follows.



## Operating mode explanation

RoboNet operates under instructions received from the PLC via the field network.

It can be used switching among the following three operating modes.

Use the operating mode that best suits the device operation details and control method.

	Name	Contents
1	Positioner mode	This mode operates by specifying the position number. The position data, velocity, acceleration, etc. are input for each position ahead of time. Up to 768 positions can be registered.
2	Simple direct value mode	This mode operates by directly specifying only the position data and specifying other data – velocity, acceleration, position width, electrical current limit for pressing – with the position number. Up to 768 positions can be registered.
3	Direct numeric value specification	This mode operates by directly specifying the numeric values for the position data, velocity, acceleration, position width, and electrical current limit for pressing. There is no limit on the number of position points that can be specified numerically.

## List of Functions by Operating Mode

	Positioner mode	Simple direct value mode	Direct numeric value specification
Number of positions registered	768 points	768 points	—
Movement by specifying position number	○	○	—
Direct specification of position data	—	○	○
Direct specification of velocity and acceleration	— (Specified with position table)	— (Specified with position table)	○
Direct specification of positioning width	— (Specified with position table)	— (Specified with position table)	○
Pressing operation	○ (Specified with position table)	○ (Specified with position table)	○
Completion position number monitor	○	○	—
Zone output monitor	○	○	○
Position zone output monitor	○	○	—
Teaching functions	○	—	—
Jog operations	○	○	○
Incremental moves	○	○	○
Status signal monitor (*)	○	○	○
Current position monitor (*)	○	○	○
Alarm code monitor (*)	○	○	○
Velocity and electric current monitor (*)	—	—	○
Maximum value for specification of position data	9999.99mm	9999.99mm	9999.99mm
Number of axes that can be connected	16	16	8

\* The status signal monitor, current position monitor, alarm code monitor, and velocity and electric current monitor can monitor by accessing each address of the GatewayR unit from the PLC.

## Component unit explanation

### GatewayR unit (DeviceNet specifications)



This is the communications unit for operating RoboNet via DeviceNet.

Model **RGW-DV**

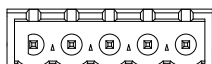
Specifications

Item	Specifications	Item	Specifications		
Power supply	DC24V ±10%	DeviceNet specifications	Communications speed		
Current consumption	600 mA max.		Maximum network length		
DeviceNet specifications	Communications standard		Maximum branch line length		
	Communications speed		Total branch line length		
	Communications cable length				
	Uses DeviceNet 2.0 certified interface module	500kbps	100m	6m	39m
	Group 2 only server	250kbps	250m		78m
	Insulated node operating with network power supply	125kbps	500m		156m
		Note: When thick DeviceNet cable is used			
	Master-satellite Connection	Number of nodes occupied	1 node		
	Bit strobe	Usage ambient temperature	0~40°C		
	Polling	Usage ambient humidity	95% RH max. (no condensation allowed)		
	Cyclic	Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.		
Communications speed	500k/250k/125kpbs (switched with dedicated software)	Protection rank	IP20		
		Weight	140g		
		Accessories	Terminal resistance board (Model TN-1) Network connector/emergency stop connector		

\*1 For T branch communications, refer to the user's manuals for the master unit and for the PLC used.

#### Network connector

Gateway side connector  
MSTBA2.5/5-G-5.08 ABGY AU  
(Made by Phoenix Contact)



Cable side connector  
MSTB2.5/5-ST-5.08 ABGY AU  
(Made by Phoenix Contact)  
= Standard accessory



Pin colors	Explanation
Black	Power cable - side
Blue	Communications data Low side
—	Shield
White	Communications data High side
Red	Power cable + side

#### Compatible wire for cable side connector

Item	Contents
Compatible wire diameter	Braided wire AWG24-12 (0.2~2.5 mm <sup>2</sup> )
Peeled wire length	7mm

### GatewayR unit CC-Link specifications



This is the communications unit for operating RoboNet via CC-Link.

Model **RGW-CC**

Specifications

Item	Specifications	Item	Specifications					
Power supply	DC24V ±10%	Error control technique	CRC (X <sup>16</sup> +X <sup>12</sup> +X <sup>5</sup> +1)					
Current consumption	600 mA max.	Number of stations occupied	Remote device stations 1x 4 stations, 4x 2 stations, 8x 2 stations					
CC-Link specifications	Communications standard	Communications cable length (*2)	Communications speed (bps)					
	Communications speed	10M/5M/2.5M/625k/156kpbs (switched with dedicated software)	10M	5M	2.5M	625k	156k	
	Communications technique	Broadcast polling technique	Total cable length (m)	100	160	400	900	1200
	Synchronization technique	Frame synchronization technique	Communication cable	Special CC-Link cable				
	Encoding technique	NRZI	Usage ambient temperature	0~40°C				
	Transmission path format	Bus format (complies with EIA RS485)	Usage ambient humidity	95% RH max. (no condensation allowed)				
	Transmission format	Complies with HDLC	Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.				
		Protection rank	IP20					
		Weight	140g					
		Accessories	Terminal resistance board (Model TN-1) Network connector/emergency stop connector Terminal resistance cable (110Ω/130Ω)					

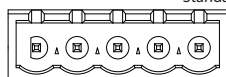
\*1 Certification acquired

\*2 For T branch communications, refer to the user's manuals for the master unit and for the PLC used.

#### Network connector

Gateway side connector  
MSTBA2.5/5-G-5.08AU  
(Made by Phoenix Contact)

Cable side connector  
MSTB2.5/5-ST-5.08 ABGY AU  
(Made by Phoenix Contact)  
= Standard accessory



DA DB DG SLD FG

Signal name	Explanation
DA	Communications line A
DB	Communications line B
DG	Ground
SLD	Connect the shield and cable shield to the frame ground and chassis.
FG	Connect the frame ground to the shield and the chassis

#### Compatible wire for cable side connector

Item	Contents
Compatible wire diameter	Braided wire AWG24-12 (0.2~2.5 mm <sup>2</sup> )
Peeled wire length	7mm

## GatewayR unit (Profibus specifications)



This is the communications unit for operating RoboNet via Profibus.

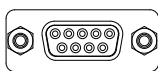
Model **RGW-PR**

Specifications

Item	Specifications	Item	Specifications		
Power supply	DC24V ±10%	Environmental conditions	Usage ambient temperature		
Current consumption	600 mA max.		Usage ambient humidity		
Profibus specifications	Communications standard	Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.		
	Communications speed		Protection rank	IP20	
	Communications cable length	9.6kbps	1500m	Weight	140g
		500kbps	400m	Accessories	Terminal resistance board (Model TN-1) Emergency stop connector
		1.5Mbps	200m		
3Mbps		200m			
12Mbps	100m				

### Network connector

Gateway side connector: 5 1  
D-Sub 9-pin connector  
Socket side



9 6

Pin No.	Signal name	Explanation	Pin No.	Signal name	Explanation
	B-Line	Communications line B (RS485)	6	+5V	+5V output (insulated)
4	RTS	Request to send	8	A-Line	Communications line A (RS485)
5	GND	Signal ground (insulated)	Housing	Shield	The cable shield is connected with the chassis.

\* The partner side connector (D-sub 9-pin connector) does not come as an accessory.

\* Pins 1, 2, 7, and 9 are not connected.

## GatewayR unit SIO specifications



This is the communications unit for operating RoboNet with serial communications from an XSEL controller (\*1) or Modbus communications unit.

\*1 A unit with XSEL Gateway functions is scheduled for release soon.

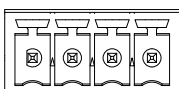
Model **RGW-SIO**

Specifications

Item	Specifications	Item	Specifications	
Power supply	DC24V ±10%	Environmental conditions	Usage ambient temperature	
Current consumption	600 mA max.		Usage ambient humidity	
SIO specifications	Communications format	Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.	
	Communications technique		Stop-start system Half duplex	Protection rank
	Communications speed	230.4 kbps max.	Weight	140g
	Cable length	100 m max.	Accessories	Terminal resistance board (Model TN-1) Network connector/emergency stop connector
	Recommended cable	2-pair twisted pair cable (with shield)		

### Network connector

Gateway side connector  
MC1.5/4-G-3.5  
(Made by Phoenix Contact)



Cable side connector:  
MC1.5/4-ST-3.5  
(Made by Phoenix Contact)  
= Standard accessory

FG SG SB SA

Signal name	Explanation
SA	Communications line A (+ side) RS485 compliant Terminal resistance board (220 Ω) built in
SB	Communications line B (- side)
SG	Signal ground
FG	The frame ground is connected with the chassis.

### Compatible wire for cable side connector

Item	Contents
Compatible wire diameter	Braided wire AWG28-16 (0.14 ~ 1.5 mm <sup>2</sup> )
Peeled wire length	7mm

## Component unit explanation

### RACON unit RCA series controller



This is the controller unit for operating an RCA actuator with RoboNet.

Model **RACON-①-②**

Explanation model items: ① Motor output (W) ② Optional integrated absolute unit (ABU)

Controller model	Supported actuators
RACON-20-②	RCA-SA4□ / SS4□ / SA5□ / SS5□ / RA4□-20 / RG□4□-20 / A4R / A5R RCACR-SA4C / SA5□ RCAW-RA4□-20
RACON-20S-②	RCA-RA3□ / RG□3□ RCAW-RA3□
RACON-30-②	RCA-SA6□ / SS6□ / RA4□-30 / RG□4□-30 / A6R RCACR-SA6□ RCAW-RA4□-30

#### Specifications

Item	Specifications	Item	Specifications		
General specifications	Power supply	DC24V ±10%	Environmental conditions	Usage ambient temperature	0~50°C
	Power supply capacity	5.1 A max. (depends on actuator)		Usage ambient humidity	95% RH max. (no condensation allowed)
	Operating actuator	RCA series		Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.
	Number of positioning points	768 points		Protection rank	IP20
	Backup memory	EEPROM		Weight	200g
	Position detection technique	Incremental encoder	Accessories	RoboNet communication connection board (JB-1 model)	
	Electromagnetic brake forced release	Brake release switch		Power supply connection board (PP-1 model)	
	Motor cable	Model CB-ACS-MA□□□			
	Encoder cable	Model CB-ACS-PA□□□			

### RPCON unit RCP2 series controller



This is the controller unit for operating an RCP2 actuator (\*1) with RoboNet.

Model **RPCON-①-②**

Explanation model items: ① Motor output (W) ② Optional integrated absolute unit (ABU)

Controller model	Supported actuators
RPCON-20P	RCP2-RA2C (*2) / GRS (*2)
RPCON-28P-②	RCP2-GRM / GR3LS / GR3SS / RTB (*2) / RTC (*2)
RPCON-28SP-②	RCP2-RA3C / RGD3C
RPCON-42P-②	RCP2-SA5□ / SA6□ / SS7□ / BA6□ / BA7□ / RA4C / RG□4C / GR3LM / GR3SM RCP2CR-SA5C / SA6C / SS7C RCP2W-RA4C
RPCON-56P	RCP2-SA7□ / SS8□ / RA6C / RG6□C RCP2CR-SA7C / SS8C RCP2W-RA6C

\*1 This controller can also operate an old-type RCP2 actuator. (Please inquire for details.)

\*2 Controller models with integrated absolute unit (item ②) are not available for RCP2-RA2C / GRS / RTB / RTC.

#### Specifications

Item	Specifications	Item	Specifications		
General specifications	Power supply	DC24V ±10%	Environmental conditions	Usage ambient temperature	0~50°C
	Power supply capacity	2 A max.		Usage ambient humidity	95% RH max. (no condensation allowed)
	Operating actuator	RCP2 series		Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.
	Number of positioning points	768 points		Protection rank	IP20
	Backup memory	EEPROM		Weight	200g
	Position detection technique	Incremental encoder	Accessories	RoboNet communication connection board (JB-1 model)	
	Electromagnetic brake forced release	Brake release switch		Power supply connection board (PP-1 model)	
	Motor cable	Model CB-RCP2-MA□□□			
	Encoder cable	Model CB-RCP2-PA□□□			



### Simple absolute R unit



This is a data backup battery unit that is connected to a RACON/RPCON unit (\*1) to allow incremental specifications actuators to be used as absolute specifications actuators.

\*1 One simple absolute R unit is required for each RACON/RPCON unit.

Model **RABU** (Common to RACON/RPCON)

Specifications

Item	Specifications				Item	Specifications		
General specifications	Power supply	DC24V ±10%				Environmental conditions	Usage ambient temperature	0~40°C
	Current consumption	300 mA max.					Usage ambient humidity	95% RH max. (no condensation allowed)
	Battery used	Nickel metal hydride battery (Ni-MH)				Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.	
	Charge time	About 78 hours				Protection rank	IP20	
	Battery life	3 years				Weight	330g	
	Can store absolute data Maximum rotation rate (rpm)	800	400	200	100	Accessories	RoboNet communication connection board (JB-1 model)	
	Absolute data storage time (h)	120	240	360	480		Simple absolute specifications connection board (JB-1 model)	
						Power supply connection board (PP-1 model)		

### Extension unit



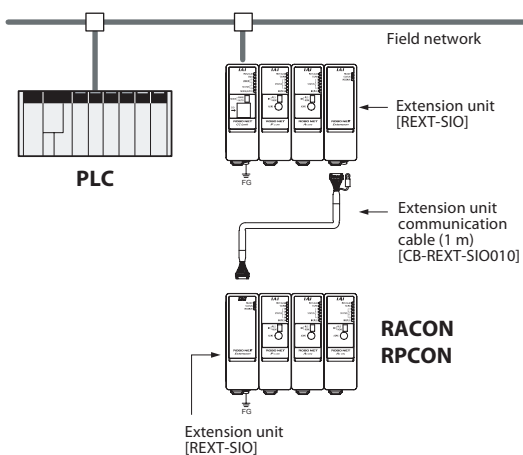
This is an extension unit for connecting many RoboNet units in two lines by a communication cable when there is space limit. Also it enables to operate single controller such as SCON or PCON-CF on network by connecting a link cable between the last extension unit and a wire from controller.

Model **REXT** (Common to RACON/RPCON)

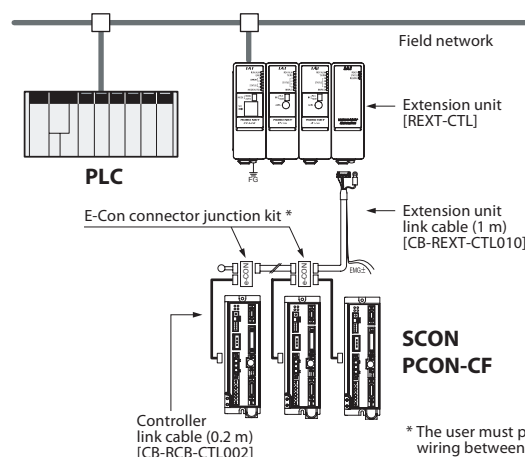
Specifications

Item	Specifications	
Power supply	DC24V ±10%	
Current consumption	100 mA max.	
Environmental conditions	Usage ambient temperature	0~40°C
	Usage ambient humidity	95% RH max. (no condensation allowed)
	Usage atmosphere	There must be no corrosive gas, combustible gas, oil mist, or dust.
	Protection rank	IP20
Weight	140g	
Accessories	RoboNet communication connection board (JB-1 model) Power supply connection board (PP-1 model)	

#### REXT-SIO (Standard extension for more RoboNet units)



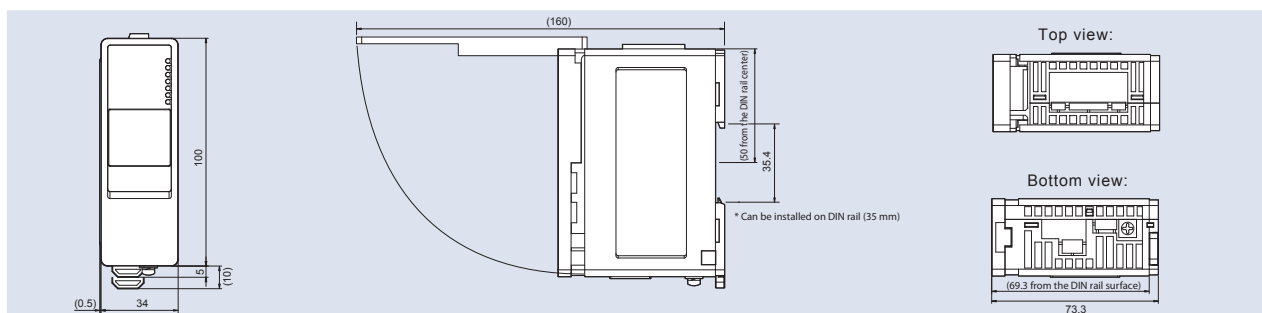
#### REXT-CTL (Special extension for SCON or PCON-CF controllers)



\* The user must provide the wiring between junctions.

## External dimensions diagram

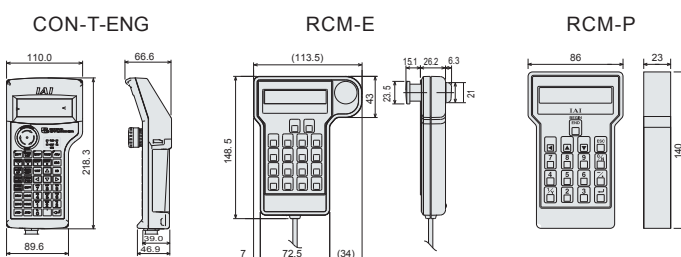
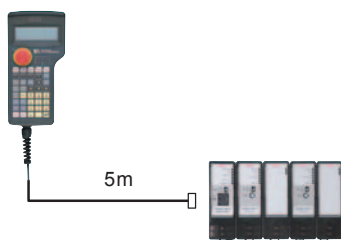
GatewayR unit/RACON unit/RPCON unit/simple absolute R unit all share the same external dimensions.



## Options

### Teaching box

- Features This is a teaching device equipped with position input, test run, monitor, and other functions.
- Model **CON-T-ENG** (standard type, with CE/ANSI mark)  
**RCM-E** (simple teaching box, no CE mark)  
**RCM-P** (data setting unit, no CE mark)
- Configuration

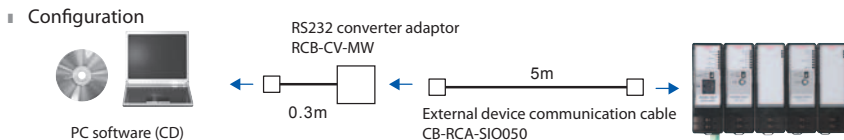


### Specifications

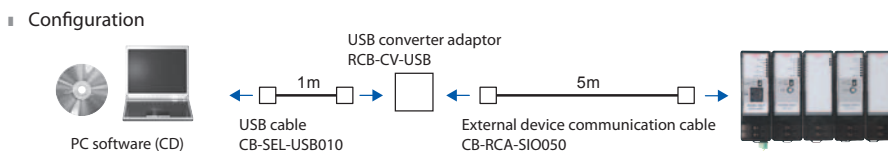
Item	* no CE mark		
	CON-T-ENG	RCM-E (*)	RCM-P (*)
Data input	○	○	○
Actuator operation	○	○	-
Usage ambient temperature and humidity	Temperature 0 to 40°C Relative humidity 85% max.		
Usage atmosphere	No corrosive gas allowed. Dust must not be particularly bad.		
Protection rank	IP54	-	-
Weight	About 400g	About 400g	About 360g
Cable length	5m		
Display	20-character by 4-line LCD display	16-character by 2-line LCD display	16-character by 2-line LCD display

### PC software (for Windows only)

- Features This is startup support software equipped with program/position input, test run, monitor, and other functions. It increases functions required for debugging operations and contributes to shortening the start-up time.
- Model **RCM-101-MW-EU** (with external device communications cable + RS232 converter unit)

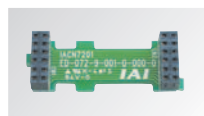


- Model **RCM-101-USB-EU** (with external device communications cable + USB cable)

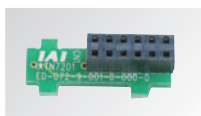


## Maintenance parts

When it is necessary to make arrangements for a replacement cable or the like after product purchase, find the model below.



RoboNet communication connection board (simple absolute connection board) Model JB-1



Terminal resistance board Model TN-1



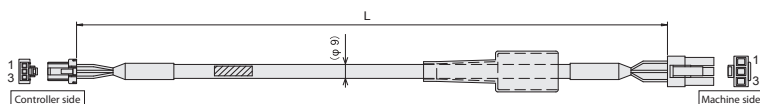
Power supply connection board Model PP-1

### RACON motor cable

### Motor cable

Model **CB-ACS-MA□□□**

\* For □□□ enter the cable length (L), up to 20 meters. Example: 080=8 meters



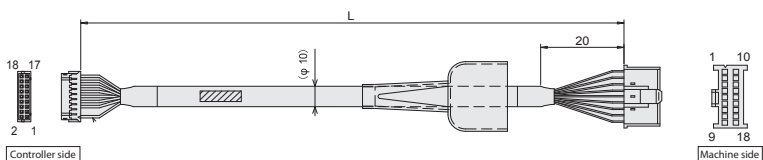
Wire	Color	Signal	NO	NO	Signal	Color	Wire
AWG22 (press fit)	Red	U	1	1	U	Red	AWG22 (press fit)
	White	V	2	2	V	White	
	Black	W	3	3	W	Black	

### RACON encoder cable

### Encoder cable/encoder robot cable

Model **CB-ACS-PA□□□□/CB-ACS-PA□□□□-RB**

\* The standard encoder cable is the normal cable. A robot cable is available as an option.  
\* For □□□□ enter the cable length (L), up to 20 meters. Example: 080=8 meters



CN2				CN1			
Robot cable	Standard cable	Signal abbrev.	Pin No.	Signal abbrev.	Standard cable	Robot cable	Cable color
White/orange	Blue	LS+	18	1	EN/A	Gray	White/blue
White/gray	Orange	LS-	17	2	EN/B	Red	White/yellow
Yellow	Green	BK+	16	3	EN/B	Black	White/red
Blue	Brown	BK-	15	4	EN/B	Yellow	White/black
White/blue	Gray	EN/A	14	5	---	---	---
White/yellow	Red	EN/A	13	6	---	---	---
White/red	Black	EN/B	12	7	LS+	Blue	White/purple
White/black	Yellow	EN/B	11	8	---	---	---
Orange	Pink	EN/Z	10	9	FG	Drain	Drain
Green	Purple	EN/Z	9	10	EN/Z	Pink	Orange
Purple	White	---	8	11	EN/Z	Purple	Green
Gray	Blue/red	VPS	7	12	---	White	Purple
Red	Orange/white	SV	6	13	VPS	Blue/red	Gray
Black	Green/white	GND	5	14	SV	Orange/white	Red
---	---	---	4	15	GND	Green/white	Black
---	---	---	3	16	LS-	Orange	White/gray
---	---	---	2	17	BK-	Brown	Blue
---	---	---	1	18	BK+	Green	Yellow
Drain	Drain	F.G.	1				

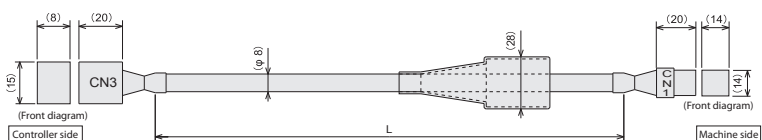
Housing: PHDR-18V (JST)  
Contact: SPHD-001T-P0.5 (JST)  
Plug housing: XMP-18V (JST)  
Socket contact: BKA-001T-P0.6 (JST)  
Retainer: XMS-09V (JST)

### RPCON motor cable

### Motor cable

Model **CB-RCP2-MA□□□□**

\* The standard motor cable is a robot cable.  
\* For □□□□ enter the cable length (L), up to 20 meters. Example: 080=8 meters



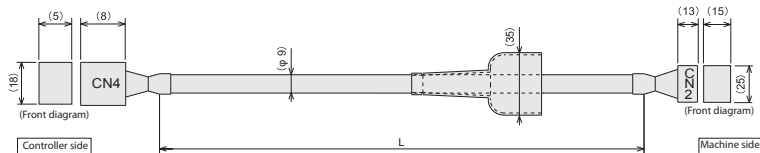
CN3			M cable			CN1		
Orange	A	A1	1	A	Yellow	1	A	Yellow
Gray	VMM	A2	2	VMM	Gray	2	VMM	Gray
White	B	A3	3	A	Orange	3	A	Orange
Yellow	A	B1	4	B	Yellow (Green)	4	B	Yellow (Green)
Pink	VMM	B2	5	VMM	Pink	5	VMM	Pink
Yellow (Green)	B	B3	6	B	White	6	B	White

### RPCON encoder cable

### Encoder cable/encoder robot cable

Model **CB-RCP2-PA□□□□/CB-RCP2-PA□□□□-RB**

\* The standard encoder cable is the normal cable. A robot cable is available as an option.  
\* For □□□□ enter the cable length (L), up to 20 meters. Example: 080=8 meters



CN2				CN1			
Robot cable	Standard cable	Signal abbrev.	Pin No.	Signal abbrev.	Standard cable	Robot cable	Cable color
---	---	LS+	16	1	EN/A	Brown	Blue
Purple	Red	BK+	14	2	EN/B	Green	White (vs blue)
White (vs purple)	Gray	BK-	13	3	EN/B	Purple	White (vs yellow)
Blue	Brown	EN/A	12	4	EN/B	Yellow	White (vs blue)
White (vs blue)	Green	EN/A	11	5	---	---	---
Yellow	Purple	EN/B	10	6	---	---	---
White (vs yellow)	Pink	EN/B	9	7	---	---	---
---	---	Reseed	8	8	---	---	---
Green	Yellow	VPS	7	9	---	---	---
Red	Orange	SV	6	10	GND	Blue	White (vs red)
White (vs red)	Blue	GND	5	11	SV	Orange	Red
---	---	---	4	12	VPS	Yellow	Green
---	---	---	3	13	---	---	---
---	---	---	2	14	---	---	---
---	---	---	1	15	---	---	---
Drain	Drain	F.G.	1	16	BK+	Red	Purple
				17	BK-	Gray	White (vs purple)
				18	F.G.	Drain	Drain

Housing: PHDR-16V (JST)  
Contact: SPHD-001T-P0.5  
Housing: XMP-18V (JST)  
Contact: BKA-001T-P0.6  
Retainer: XMS-09V

Please ask IAI for special cables of new RoboCylinder series RCP3 (CB-PCS-MPA□□□□) and RCA2 (CB-ACS-MPA□□□□) or of extension unit REXT-SIO (CB-REXT-SIO010) and REXT-CTL (CB-REXT-CTL-010).

**RoboNet Series  
Catalogue No. 1107-E**

The information contained in this catalog is  
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of product improvement



Providing quality products  
since 1986



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