

## Z series

Z1 Data carrier  
Z3 Read/Write head  
Z4 Processor

**Mitsubishi Electric  
Partner Products**



Specification for 2 Channels



# Direct mounting ! Simple! Low cost!

CC-Link

iQ-R MELSEC  
series Recognized

MELSEC Q



Can be directly connected  
to **MELSEC-Q** or **MELSEC iQ-R** or **CC-Link!!**

## ID reader/writer with a built-in controller

- Highly versatile RS232C (serial) input/output!
- Controller built into the antenna!
- Windows compatible read/write software included!

contributes to cost reduction!

No ID controller required, helping to reduce installation costs! The signal is RS-232C output so it can be used with a variety of devices.

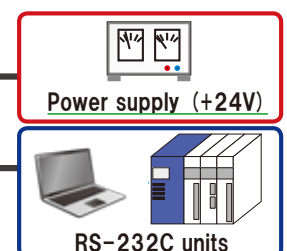
■ ID reader/writer  
Z3-R010-CN



ID tag



ID reader/writer



**Because it is direct connection it can reduce a burden at the time of the induction process.**

## Electrical Design Benefits

Simple configuration

**-Labor saving**  
**-Cost saving**  
**-Spec saving**

To construct the ID system, ID tag, ID antenna, an antenna amplifier, each apparatus and ID system of the ID controller and also the sequencer that can connect a serial unit is necessary.

In addition to the purchase cost of these, labor and space for installation become customer burden at the time of introduction.

In Z4-Q, Q bus direct connection, Z4-IQR001 is directly connected to iQ-R bus! Ease the burden and cut back the introduction cost.

### ■ Additional merit ■

The IQR is equipped with test functions that are useful during installation, maintenance, and troubleshooting of equipment.

## CC-LINK connection type is available

CC-Link connection ID controller supports other MELSEC series and PLC.

\*1 It corresponds to MELSEC-Q unit ID dedicated instruction

\*2 Corresponding to the processing instruction for the ID interface unit AJ65BT-D35ID2.

MELSOFT GX Works 3 supports from programming to operation!

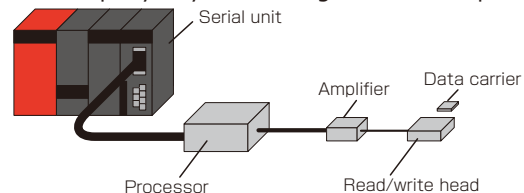


**GX-Works3 OK!!**

The MELSEC iQ - R direct connection ID controller Z4 - IQR001 is compatible with GX Works 3, which is software manufactured by Mitsubishi Electric Corporation. It is possible to design and also programming from GX Works. It is very easy to introduce ID system.



### Other company's system configuration example



## Mechanical design merit

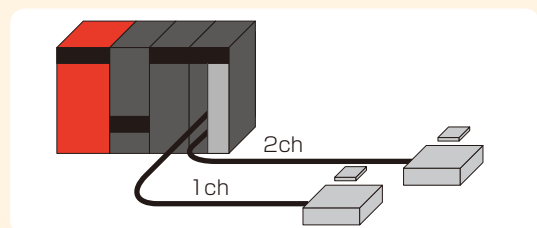
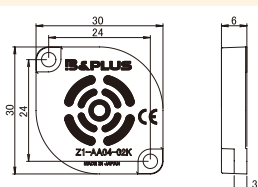
No additional work for replacing from D-2N03P is required.

Space saving & cost saving with 2in1 Processor



Same mounting hole size with D-2N

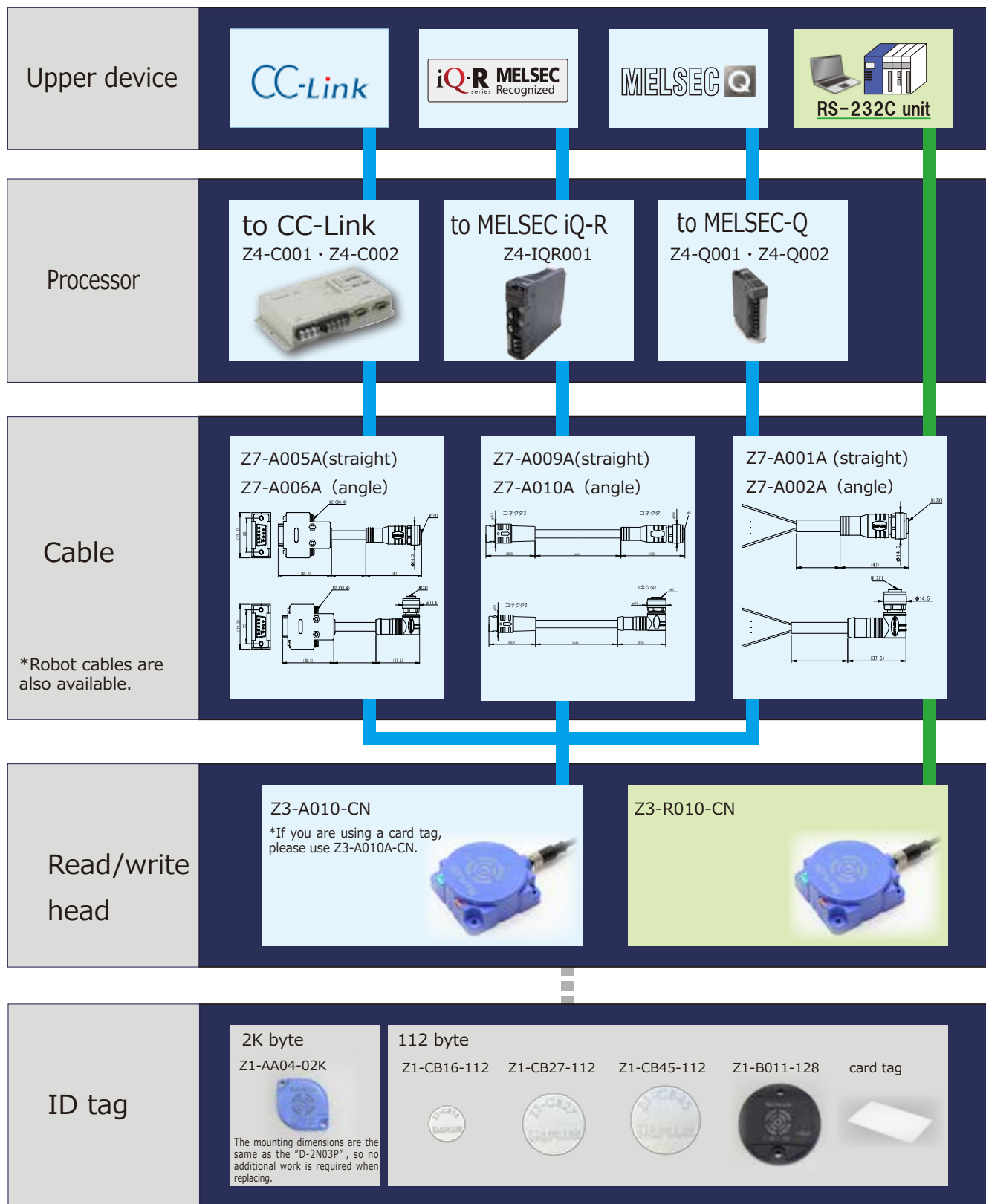
Z1-AA04 and D-2N03P are same dimensions, so no additional work for replacement is required.



Reduce in board space by connecting two read/write head

\*D-2N03PS and D-2N03PM are Data carrier for RFID system manufactured by Mitsubishi electric company

# 【system configuration】



## System reference price

MELSEC-Q Series  
RFID System Equipment  
Configuration

### Connection with MELSEC-Q

ID tag (2K)
Read/write head
Amplifier
Read/write head cable (2m)
Processor (2 ch)
MELSEC-Q serial communication unit
Total amount

B&PLUS	company A	company B
Direct bus connection	Serial Communication Unit	Direct bus connection
1,900	3,800	3,800
36,000	14,200	14,200
—	33,000	33,000
6,500	—	—
98,000	210,000	210,000
—	90,000	—
142,400	351,000	261,000

Reference standard price (as of the end of June 2020) Unit (yen)

Z series product index

Processor



Type code	Standard type	Z4-Q001	Z4-C001	Z4-IQR001
	Mitsubishi ID sys-tem compatible	Z4-Q002(Correspond to ID special instruction ) *4	Z4-C002 (AJ65BT-D35ID 2 way communica-tion exchange) *5	
Interface		MELSEC-Q BUS direct mounting	CC-LINK connection	MELSEC- R BUS direct mounting
Supply voltage		24V DC ± 10% / 0.75A	24V DC ± 10% / 0.8A	24V DC ± 10% / 0.3A
PLC power supply		5V DC / 0.5A		5V DC / 0.5A
Number of occupied I/O		32 signals	16 signals	32 signals
Number of connected Read/Write head		Connectable up to 2 Read/Write heads	Connectable up to 2 Read/Write heads	Connectable up to 2 Read/Write heads
How to connect R/W head		terminal block connection	Connector connection	terminal block connection

\*4 It corresponds to MELSEC-Q unit ID dedicated instruction

\*5 Corresponding to the processing instruction for the ID interface unit AJ65BT-D35ID2. AJ65BT-D35ID2 is a Processor for CC-Link manufactured by Mitsubishi Electric Corporation.

( Antenna cable ( between Read/Write head and Processor)

Figure	M12 straight	M12 angle	M12 straight	M12 angle	M12 straight	M12 angle

Read/Write head



Type code	Z3-A010-CN
Size	W80xH80xD30mm
Case material	PBT
Connection	Cable for 8-pin connector

IDtag

Type code	Z1-AA04-02K	Z1-B011-128	Z1-CB16-112	Z1-CB27-112	Z1-CB45-112
Feature	D-2N Compatible install	Long distance D tag	Thin Tag	Thin Tag	Thin Tag
Size	30 × 30 × 6mm	Φ 50 × 8.3mm	Φ 16 × 0.76mm	Φ 27 × 0.76mm	Φ 45 × 0.76mm
Available memory capability	2k byte(FRAM)	112byte (EEPROM)			

Wireless Power Supply by

**B & PLUS K.K.**

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Web : <http://www.b-plus-kk.com>

\* Contents is subject to change without notice.