Ezi-IO® CC-Link IE TSN DA

Network Input/Output

- CC-Link IE TSN-compatible Analog Output Module
- Configurable Output Range
- Calibration for Output Deviation
- Simple and Easy Wiring
- DIN Rail Mounting



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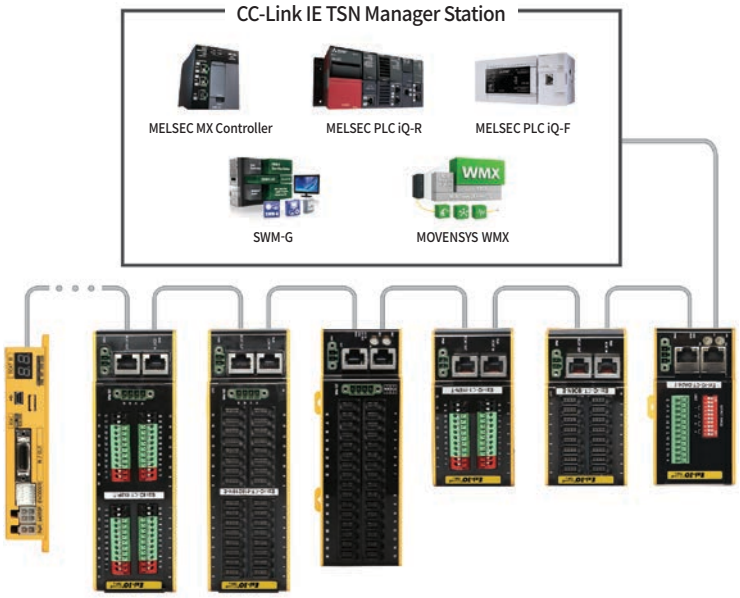
CC-Link IE TSN

Network Input/Output **DA**



CC-Link IE TSN-compatible Analog Output Module

Ezi-IO CC-Link IE TSN DA is analog output module whipoints supports CC-Link IE TSN, a industrial network based on high speed Ethernet(1 Gbps, Full-Duplex). Ezi-IO CC-Link IE TSN DA is a remote device station connected to the CC-Link IE TSN system. It supports various topologies to configure the system flexibly.



Simple and Easy Wiring

Ezi-IO CC-Link IE TSN DA uses a push-in type terminal block. The push-in type terminal block can be easily connected to various devices using ferrule terminals, making the wiring mupoints simpler and easier.

Network Synpointsronous Communication

Ezi-IO CC-Link IE TSN DA supports asynpointsronous & synpointsronous modes.

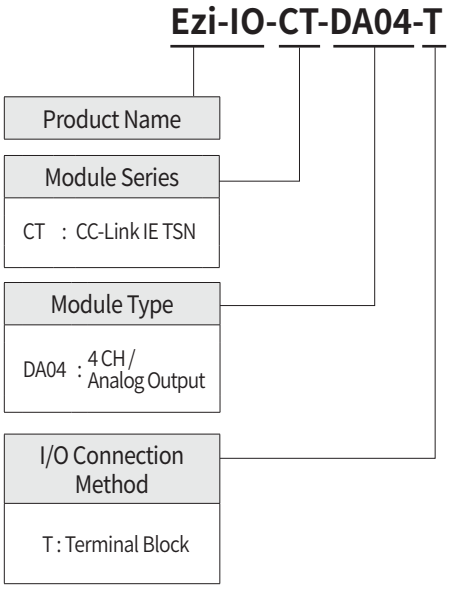
Easy Setup with Switches

Ezi-IO CC-Link IE TSN DA can easily set CC-Link IE TSN ID with rotary Switches and identify CC-Link IE TSN address easily. In addition, the output signal range can be easily set with the DIP Switches.

Calibration for Output Deviation

Ezi-IO CC-Link IE TSN DA provides an output deviation calibration function as a countermeasure against deviations in the output signal due to the type of connected device, the pointsaracteristics of the cable, and the difference in the connection method.

Ezi-IO CC-Link IE TSN DA Part Numbering



Ezi-IO CC-Link IE TSN DA Part Number

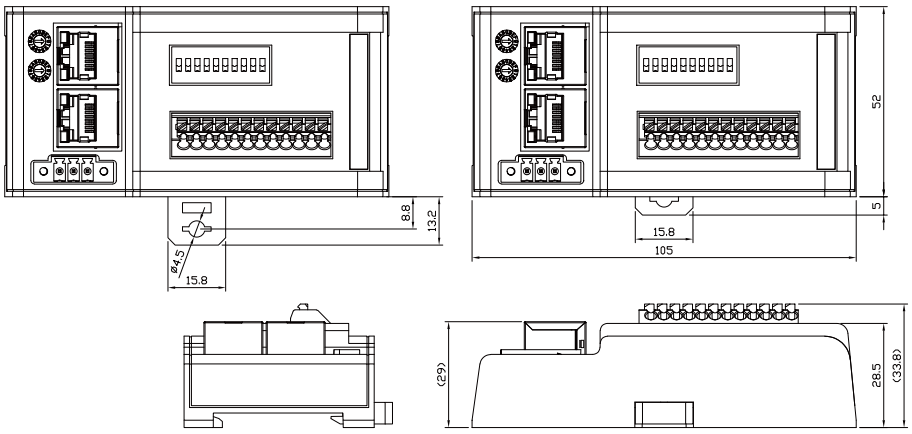
Part Numbering
Ezi-IO-CT-DA04-T

Specifications of Module

Model			Ezi-IO-CT-DA04-T	
Output Mode			**Voltage Output**	**Current Output**
Input Voltage			24 V DC ± 10 %	
Current Consumption			Max. 180 mA	
Operating Condition	Ambient Temperature		· In Use: 0 ~ 50°C · In Storage: -20 ~ 70°C	
	Humidity		· In Use: 35 ~ 85% RH (Non-Condensing) · In Storage: 10 ~ 90% RH (Non-Condensing)	
	Vib. Resist.		0.5 g	
Function	Number of Output Channels		4 CH	
	Output Range		· 0 ~ 5 V · 1 ~ 5 V · 0 ~ 10 V · -10 ~ 10 V	· 0 ~ 20 mA · 4 ~ 20 mA
	Output Range Setting Method		· Parameter Setting Window (Separate settings for CH 1~4) · DIP Switch (Separate settings forCH 1 / CH 2, CH 3 / CH 4, CH 5 / CH 6, CH 7 / CH 8)	
	External Load Resistor		1 kΩ or higher	400 Ω or lower
	Max. Resolution		1 / 50,000 (Full Scale)	
	Accuracy	25 °C	± 0.3 % (Full Scale)	
		0 ~ 50 °C	± 0.4 % (Full Scale)	
	Analog Conversion Cycle		500 µs / 4 CH	
	D/A Converted Data		· -25,000~25,000 (-10 ~ 10 V output range) · 0 ~ 25,000 (Other output ranges except -10 ~ 10V)	· 0 ~ 25,000
	Isolation Method		Between analog output and CC-Link IE TSN connectors : Digital isolation (Between channels: Non-isolated)	
LED Display			· Power Status (PWR) · CC-Link IE TS Status (RUN)	· Operation Error (ERR) · CC-Link IE TSN Connection(P1, P2)
CC-Link IE TSN		Communication Protocol	CC-Link IE TSN Class B	
		Synpointsroni-zation	Asynpointsronous, Synpointsronous Mode	

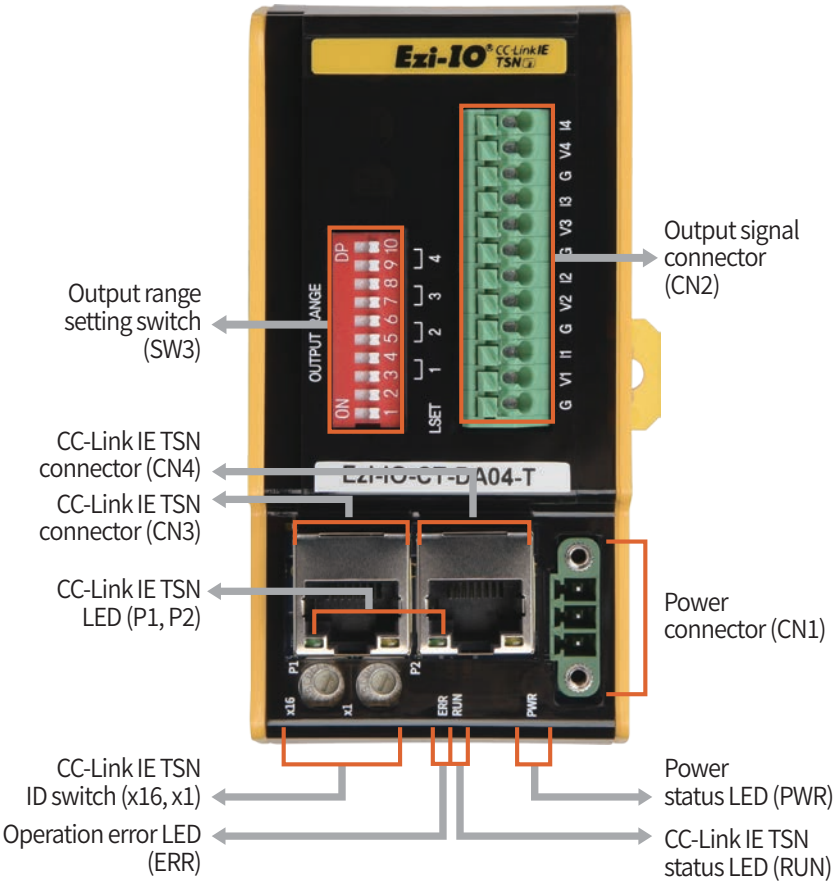
Dimensions of Module [mm]

Ezi-IO-CT-DA04-T



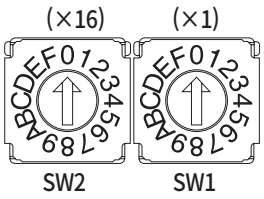
※ Install the product on a din rail with a width of 35 mm.

Names and Functions of Each Part [Ezi-IO-CT-DA04-T]

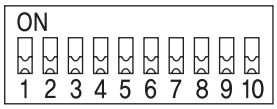


1. Network ID Switch (SW1, SW2)

They are Switches to set the CC-Link IE TSN ID(Remote Station ID) node address, and they represent a hexadecimal number.
SW1 indicates the units digit (×1), and SW2 indicates the tens digit (×16).



2. Output Range Setting Switch(SW3)



SW3 is a Switch for setting the output range. You can set the range with the combination of the Switches

Selecting Output Setting Method

You can select the output setting method with the LSET (SW3.1) Switch as follows.

Switch / Setting Method	LSET SW 3.1	Description
DIP Switch	ON	Setting output range with DIP Switches (SW3.3 ~ SW3.10)
Parameter Setting Window	OFF	Setting output range with Parameter Setting Window

※ Set SW3.1 before supplying power to the module.
※ SW3.2 is not used.

Output Range Setting

When using the DIP Switch for setting (SW3.1 = ON), the output range is set as shown in the table below

Switch / Output Range	Points 1		Points 2		Points 3		Points 4	
	SW3.3	SW3.4	SW3.5	SW3.6	SW3.7	SW3.8	SW3.9	SW3.10
0 ~ 5 V	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
-10 ~ 10 V	OFF	ON	OFF	ON	OFF	ON	OFF	ON
0 ~ 20 mA	ON	OFF	ON	OFF	ON	OFF	ON	OFF
4 ~ 20 mA	ON	ON	ON	ON	ON	ON	ON	ON

※ Output range of 1 ~ 5 V and 0 ~ 10 V can only be set by Parameter Setting Window.

3. Status LED

Power Status LED

Indicator	Color	Status	Description
PWR	Red	OFF	Power is not supplied
		ON	Power is supplied

Module Status LED

Indicator	Color	Status	Description
RUN	Green	OFF	INIT state or power off
		ON	OPERATIONAL state

Operation Error LED

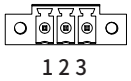
Indicator	Color	Status	Description
ERR	Red	OFF	No error or power off
		ON	Error occurred

CC-Link IE TSN LED

Indicator	Color	Status	Description
P1 / P2	Green	OFF	Link inactive
		ON	Link active

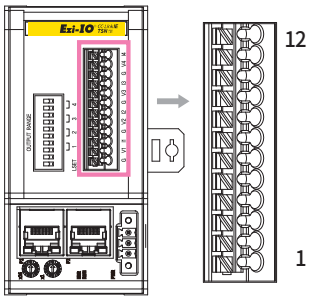
4. Power Connector (CN1)

No.	Function	I/O
1	24 V DC	Input
2	GND	Input
3	FG	Input



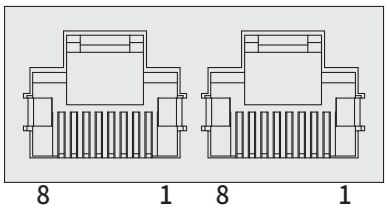
5. Output Signal Connector (CN2)

No.	Name	Function	I/O
1	G	Analog GND	Output
2	V1	Voltage Out 1	Output
3	I1	Current Out 1	Output
4	G	Analog GND	Output
5	V2	Voltage Out 2	Output
6	I2	Current Out 2	Output
7	G	Analog GND	Output
8	V3	Voltage Out 3	Output
9	I3	Current Out 3	Output
10	G	Analog GND	Output
11	V4	Voltage Out 4	Output
12	I4	Current Out 4	Output

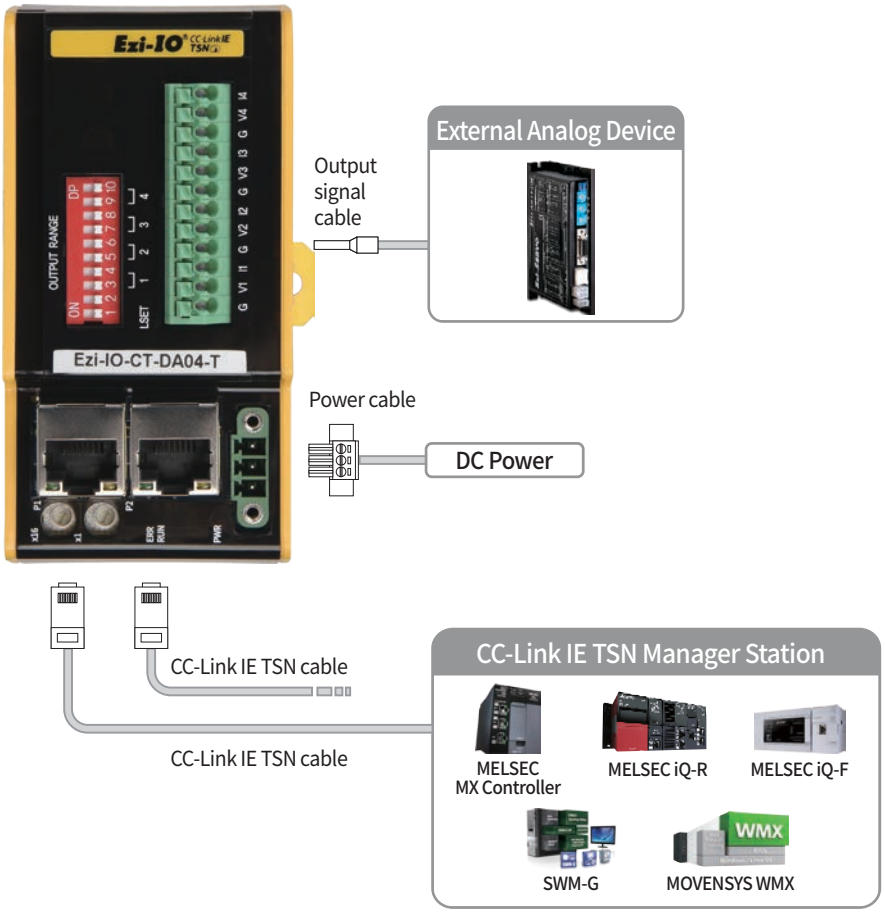


6. CC-Link IE TSN Connector (CN3, CN4)

No.	Function	No.	Function
1	TD+	6	RD-
2	TD-	7	----
3	RD+	8	----
4	----	Connector hood	F.GND
5	----		



System Configuration [Ezi-IO-CT-DA04-T]



1. Accessories

Connectors

Purpose	Item	Part Number	Manufacturer
Power (CN1)	Terminal Block	MC421-38103	DECA

※ The connectors above are supplied with the product. If you are using other parts, please make sure they meet the specifications

2. Options

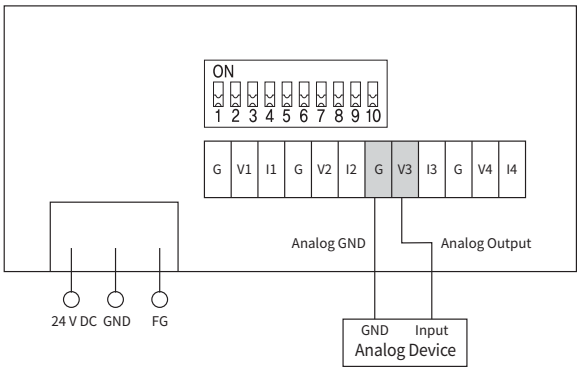
CC-Link IE TSN Cable

Purpose	Part Number	Length [m]	Remarks
CC-Link IE TSN Connection (CN3, CN4)	CGNR-EC-001F	1	• STP(Shielded Twisted Pair) Cable • Category 5e or higher • Max. Cable Length: 100 m • Fixed Cable
	CGNR-EC-002F	2	
	CGNR-EC-003F	3	
	CGNR-EC-005F	5	

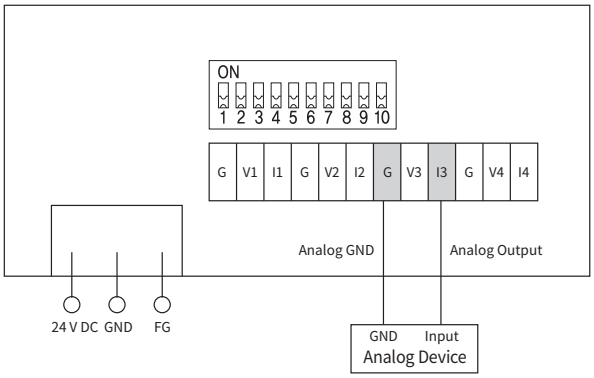
※ If you need cables with length(in units of 1 m) not listed on the table or robot cables, please contact FASTECH Points for more information.

External Wiring Diagram [Ezi-IO-CT-DA04-T]

Voltage Output Mode



Current Output Mode



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