



ETS-DO16P | 16 Digital Output, 24V DC, Current Sourcing

Specification

Power Specification

ITEM	ETS-DO16P
Power Dissipation(System)	Max. 40mA @ 24.0V DC
Power Dissipation(I/O)	Max. 30mA @ 24.0V DC
Rated Input Voltage	24V DC (-15%/+20%, ripple ratio within 5%) EN 61131-2

Comm. Specification

ITEM	ETS-DO16P
Transmission speed for EtherCAT	100 Mbit/s with Full Duplex
MDI/MDI-X	MDI/MDI-X auto-crossover.
ESD Protection	Contact Discharge (Typ.) 4kV
	Air Discharge (Typ.) 8kV

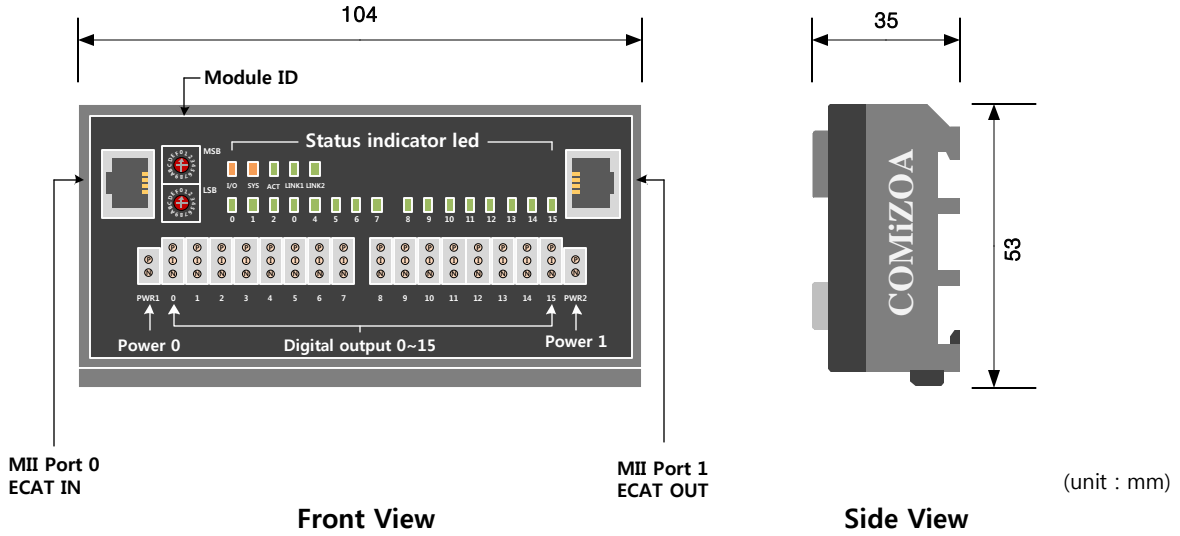
Digital Specification

ITEM	ETS-DO16P
Number of Inputs	16 output (1 Wire)
Output Type (Module)	Source, Open Collector (PNP)
Isolation	Photo-coupler(Viso=3,000Vrms)
OFF State Current	Max. 100uA / Point
On State Max Sink Current	Max. 500mA / Point
Rds(On state resistance)	Max. 1.4Ω (±5%)
Over-Temperature Shutdown	160°C
Over-Current Shutdown	0.7A (Min.) ~ 2A (Max.)
Wiring contact	5264-03(DO 3Pin), 5264-02(PWR 2Pin)

Environmental Specification

ITEM	ETS-DO16P
Dimension	104 * 53 * 35 (mm)
Install	Industrial DIN rail
Operating Temperature Range	0°C ~ 50°C
Storage Temperature Range	-20°C ~ 80°C
Operating Humidity Range	5% ~ 90%RH, non-condensing
Storage Humidity Range	5% ~ 90%RH, non-condensing

Dimension

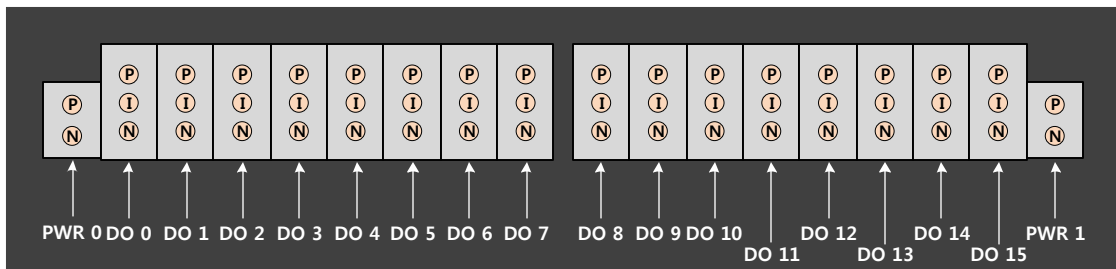


Wiring

▣ RJ45 Connector

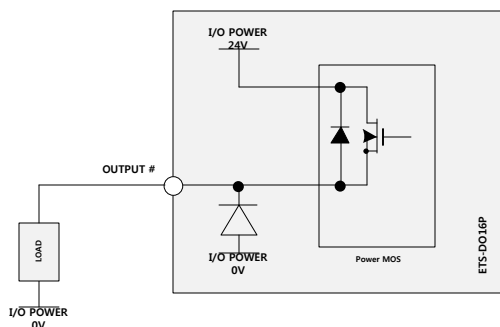
IN		OUT		RJ45 IN		RJ45 OUT	
1	8	8	1	1	TX+	1	TX+
				2	TX-	2	TX-
				3	RX+	3	RX+
				4	NC	4	NC
				5	NC	5	NC
				6	RX-	6	RX-
				7	NC	7	NC
				8	NC	8	NC

▣ Contact Number



※ All numberings are zero based

▣ Circuit Diagram



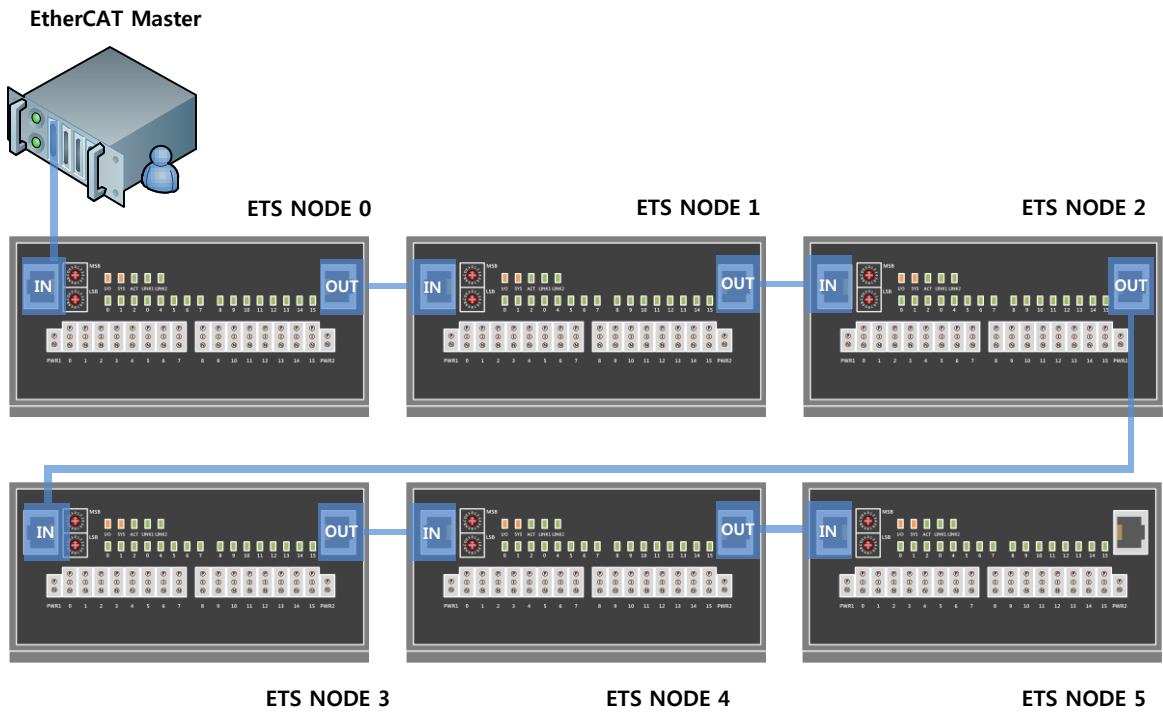
▣ PIN MAP

PWR 0, 1	
(P)	P PWR 24V
(N)	N PWR 0V
DI 0 ~ 15	
(P)	P I/O PWR 24V
(I)	I Digital Output
(N)	N I/O PWR 0V

Indicators

I/O	I/O POWER LED	ON	DIGITAL I/O POWER(24V DC) ON
		OFF	DIGITAL I/O POWER(24V DC) OFF
SYS	SYSTEM POWER LED	ON	SYSTEM POWER(3.3V DC) ON
		OFF	SYSTEM POWER(3.3V DC) OFF
ACT	EtherCAT AL STATE LED	OFF	INIT
		Blinking(slow)	PRE-OP
		Single Flash	SAFE-OP
		ON	OP
		Flickering(fast)	BOOTSTRAP
LINK 0(1)	LINK 0(1) STATE LED	Blinking(slow)	MII Port 0(1) OPEN
		OFF	MII Port 0(1) Closed
DO 0-15	OUTPUT STATE LED	ON	OUTPUT ON STATE (LOGIC ' 1')
		OFF	OUTPUT ON STATE (LOGIC ' 0')

Interface Connect



Device ID Setting

	NODE ID setting	$I.P = MSB * 16 + LSB$
	NODE ID range	1 ~ 256

■ CAUTION