

STC-PeTiD

Programmable Electrical Trigger & Vision Dimming

STC-PeTiD is designed to support Position trigger for Camera, Laser Trimming, Ink Jet, Pattern Generation, etc. It supports 2D memory up to 100K points and light control on all position.

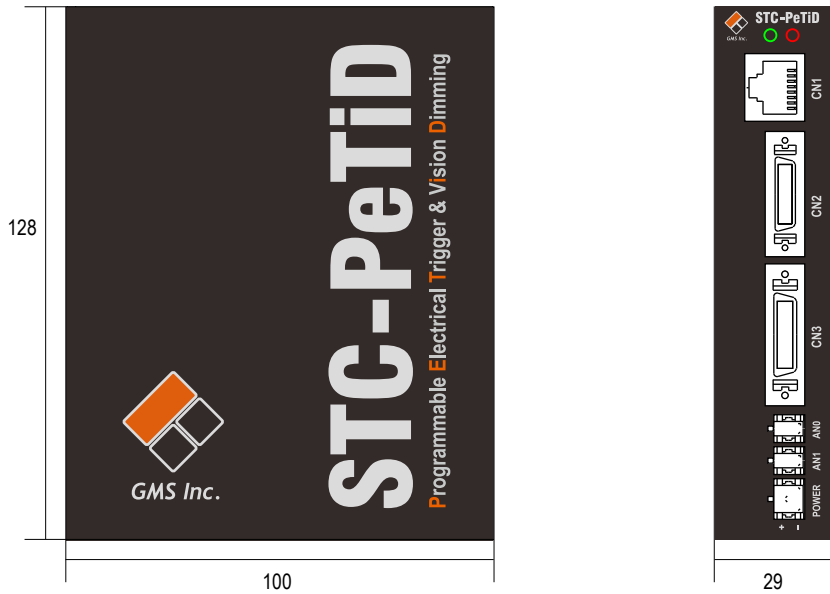
STC-PeTiD can realize your machine more multiplexity and flexibility.




Specifications


Function	Parameter	Specification
Function	Trigger	X & Y Table Index Compare Trigger (100,000 / Ch)
		X Y Table Index Trigger (100,000 / Ch)
		X & Y Laser Trimming Trigger (100,000 / Ch)
		X Y Laser Trimming Trigger (100,000 / Ch)
		X Y Line Scan Trigger
		Simulation mode Trigger (Max. Frequency : 2KHz, Max. Count : 65535)
	LED Light Control	PWM LED Lighting Control (PWM Frequency : 256 KHz)
Network Interface	TCP / IP	Modbus
Encoder Input	Channel	2 Channels (X,Y)
	Max. Quadrature count rate	10 MHz (Max. Line frequency 2.5Mhz)
	Type	Line Receiver (A+/A-, B+/B-)
	Counter	32 bit
	Position Table	X / Y (32 bit / 32 bit)
	Connector	MDR 14 Pins
Trigger Output	Channel	3 Channels (TA, TB, TC)
	Type	Line Driver & Photo coupler
	Max. Trigger Table	100,000 points
	Trigger Setting	TA, TB, TC Channel Select
		Width (80 ns ~ 1310.7 ms)
		Band (1~128 cnt)
Connector	MDR 20 Pins	
I/O	Input	IN1 : E-STOP, IN2 : Reserved [2ea]
	RS-422 Input	X_R, Y_R : User Trigger Input (for Position Capture)
	Output	OUT1 : Fault, OUT2 : Reserved [2ea]
Analog Out	Channel	2 Channels (A0, A1)
	Type	LED PWM dimming control
	Carrier Frequency	256 KHz
	Resolution	1/256 (app. 0.4%/1cnt)
	Current Ripple	+/- 3%
	Safety	Over current protection
	Connector	Molex 43045-0200
Display	LED	Power, Status, Error
Power	Voltage	12 ~ 24VDC
	Current Consumption Typical	125 mA
	Current Consumption Max	500 mA
	Safety Functions	Thermal Shutdown, Over-Current Limitation
	Connector	Molex 43045-0400
Enviroment	Operating Temperature	0~50 °C
	Storage Temperature	0~50 °C
	Humidity	25~70% RH, non-condensing


Dimensions [mm]





Connectors Information

CN1 (Ethernet Connector)	
	AMP RJ45

CN2 (Encoder Input)	
	MDR 14 Pin, 102 Series

CN3 (Trigger Output)	
	MDR 20 Pin, 102 Series

Power Connector	
	Molex 43045-0400 Mating : Molex 43025-0400

Analog Output Connector	
	Molex 43045-0200 Mating : Molex 43025-0200

Pinouts Information

Power			
Pin	Description	Description	Pin
1	N24	N24	3
2	P24	P24	4

AN 0, AN 1			
Pin	AN 0 Description	AN 1 Description	Pin
1	A0_GND	A1_GND	1
2	AN0_OUT +	A1_OUT +	2

CN2 (Encoder Input)			
Pin	Description	Description	Pin
1	XA+	XA-	8
2	XB+	XB-	9
3	SG	YA+	10
4	YA-	YB+	11
5	YB-	X_R+	12
6	X_R-	Y_R+	13
7	Y_R-	SG	14

CN3 (Trigger Output)			
Pin	Description	Description	Pin
1	TA+	TA-	11
2	TA_C	TA_E	12
3	TB+	TB-	13
4	TB_C	TB_E	14
5	TC+	TC-	15
6	TB_C	TC_E	16
7	SG	OUT 0	17
8	OUT 1	IN 0	18
9	IN 1	COM	19
10	N / A	N / A	20