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tET-DA2 tPET-DA2

Tiny Ethernet Module with Isolated 2-ch AO

Features

- Web Server for Configuration
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- I/O Pair Connection (Push and Pull)
- Supports Dual-watchdog
- Supports Firmware Update via Ethernet
- Built-in I/O
  - 2-channel Outputs
  - Voltage Outputs and Current Outputs

Introduction

The tET-DA2 / tPET-DA2 is an analog output module that includes 2 analog output channels and provides a programmable output range on all analog outputs (0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA). It provides 4 kV ESD protection as well as 3000 VDC intra-module isolation.

System Specifications

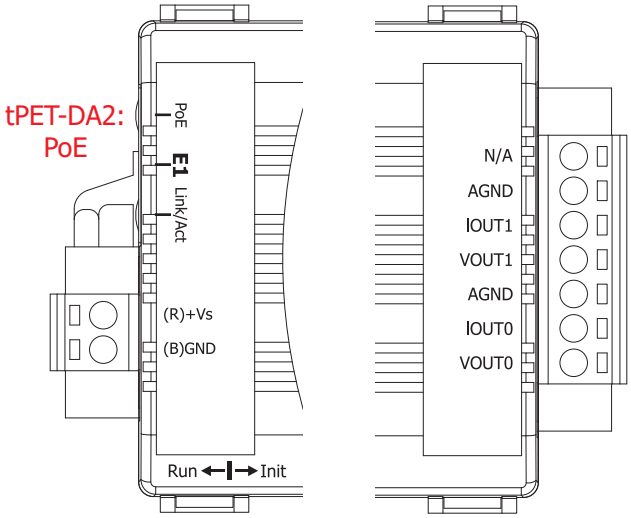
Model		tET-DA2	tPET-DA2
Software			
Built-in Web Server		Yes	
CPU Module			
CPU		32-bit MCU	
Watchdog Timer		Module, Communication (Programmable)	
Isolation			
2-way Isolation	Ethernet	1500 VDC	-
	I/O	3000 VDC	
EMS Protection			
EFT (IEC 61000-4-4)		±4 kV for Power Line	
ESD (IEC 61000-4-2)		±4 kV Contact for Each Terminal ±8 kV Air for Random Point	
LED Indicators			
Status		Run, Ethernet	Run, Ethernet, PoE
Ethernet			
Ports		1 x RJ-45, 10/100 Base-TX	
PoE		-	Yes
Access Control		Password and IP Filter	
Protocol		Modbus TCP, Modbus UDP, MQTT, SNMP V2c	
Power			
Reverse Polarity Protection		Yes	
Consumption		2.1 W	2.2 W
Powered from PoE		-	IEEE 802.3af, Class 1
Powered from Terminal Block		+12 to +48 VDC	

I/O Specifications

Model		tET-DA2	tPET-DA2
Analog Output			
Channels		2	
Range	Voltage	0 ~ 10 V	
	Current	0 ~ 20 mA , 4 ~ 20 mA	
Resolution		12-bit	
Accuracy		±0.1% of FSR	
Short Circuit Protection		Yes	
DA Output Response Time		1 ms per channel	
Programmable Output Slope	Voltage	0.0625 to 512 V/Second	
	Current	0.125 to 1024 mA/Second	
Open Wire Detection		For 4 to 20 mA only	
Voltage Output Capability		10 V @ 10 mA	
Current Load Resistance		500 Ω	
Individual Channel Configuration		Yes	
Power-on Value		Programmable	
Safe Value		Programmable	

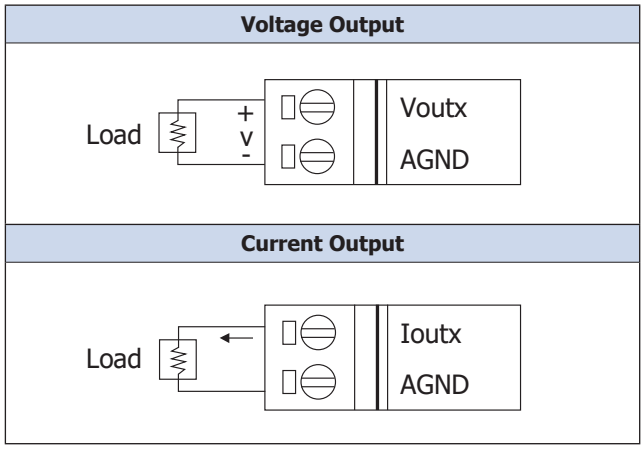
Mechanical	
Dimensions (mm)	52 x 96 x 27 (W x L x H)
Installation	DIN-Rail mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

Pin Assignments



Bottom | Top

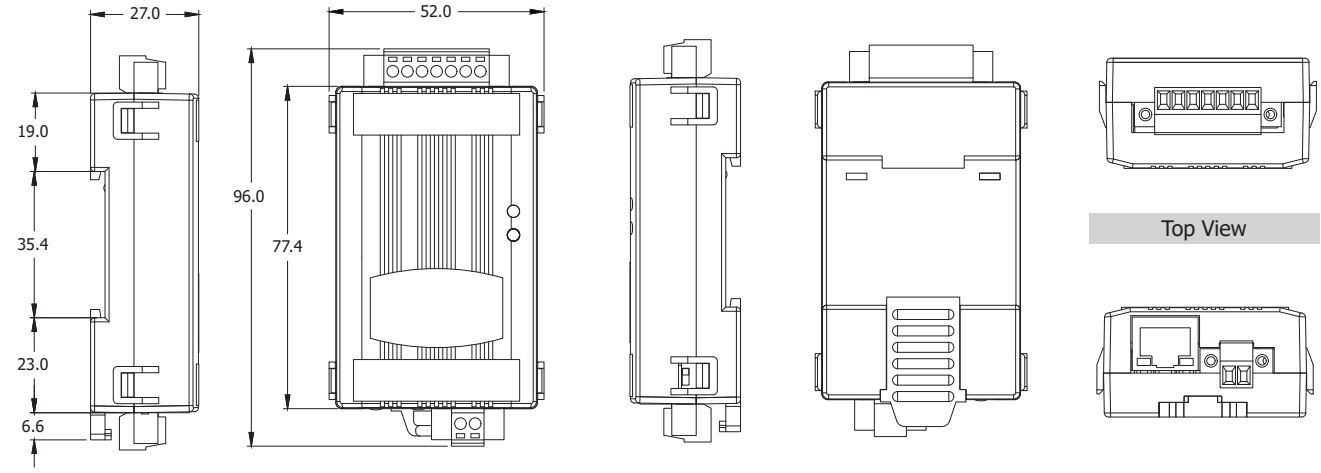
Wire Connections



Applications

- Industrial Automation
- Industrial Machinery
- Building Automation
- Food and Beverage Systems
- Semiconductor fabrication
- Control Systems

Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Rear View | Top View | Bottom View

Ordering Information

tET-DA2 CR	Tiny Ethernet Module with Isolated 2-ch AO (RoHS)
tPET-DA2 CR	Tiny PoE Ethernet Module with Isolated 2-ch AO (RoHS)