

Ethernet Remote A.I



Introduction

The TRP-C68H is an 8-ch analog Input differential isolation module that can read the voltage or current value from the web-based.

The user can read the Analog input value from the web-based that includes the smartphone. Each channel allows the user to input the DC voltage or current.

The watchdog function ensures TRP-C68H can running very stable without the firmware crash. the We built-in safety surge protection prevents the spark and damage analog chipsets at each channel. There are 3 protocols auto-detect that include ASCII and Modbus TCP RTU / ASCII.

The watchdog function ensures running stable in the harsh environment.

It allows connecting 1~8 sets of host IP in the network security.

Features

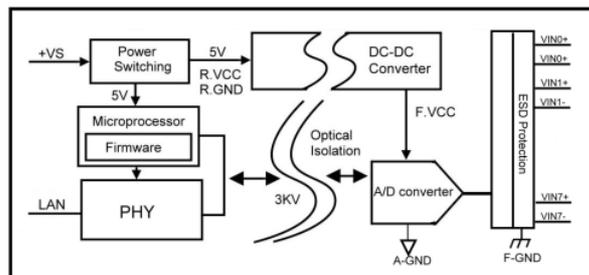
- Wide input range DC power supply.
- Automatically determine 3 TRP-ASCII and Modbus RTU/ASCII communication protocol.
- 16 TCP Port can be open at the same time.
- Heart Beat function ensures a reliable communicating connection.
- Maximum 8 sets host IP that limits network access.
- Support Virtual-COM mode.
- The web-based can be directly read analog value status.
- It is easy to update the firmware by LAN interface.
- Back to factory configuration by external touch button.
- Auto reconnection when power or Ethernet fail.
- Digital input signal from +/- 0 to 30V DC.
- Built-in surge absorbers in each relay N.C and N.O.
- Built-In watchdog function prevents system boot fail.
- LED for each I/O channels working status.
- Support Auto-MDIX twisted pair crossover detection and Auto-Correction.
- Power/Link LED indicator.
- DIN-Rail and panel mount support.
- Dual power input selects from screw terminal or DC-Jack.

TRP-C68H Isolated 8 CH. AI Modbus TCP Module

Specifications

- Resolution: 16 bit/24bit.
- Sample rate: 24 BIT Normal mode: 10 sample / sec.
16 BIT Fast Mode: 60 sample / sec.
- Bandwidth: Normal Mode: 15.72Hz.
Fast Mode:78.72Hz.
- Zero drift: 0.03uV/C .
- Span drift: 25 ppm/C.
- Accuracy: Normal 0.1 or better.
Fast: 0.5 or better.
- Analog Input range: Voltage:±10V,±5V,±2.5V,±1.25V,±650mV..
Current: +/-20mA. CMRR:92 db min/50/60Hz
- Analog input over voltage protection: +/- 48V.
- Power Input Voltage DC +10V to +30V.
- Protocol: TRP-ASCII and Modbus RTU/ASCII.
- Input channel:8-ch analog Input differential
- Input optical isolation: 3750 Vrms.
- Communication interface: Ethernet RJ45.
- Configuration mode: Device Manager, WEB settings.
- Heart Beat: TCP Port sent string every 5 seconds.
- TCP Maximum Connection:1~16.
- Module ID: 1~255.
- Connection type: Screw terminal for maximum AWG 12 wire.
- Power supply: Screw terminal, or external DC adapter.
- Power consumption 320mA/12V.
- Operating environment: 0 to 50°C .
- Storage temperature: -10 to 70°C .
- Humidity: 10~90% Non-condensing.
- Dimension: 151mm X 75mm X 26mm.
- Weight: 395g.

Block Diagram



Application Note

