TRP-C28H
Isolated 16-channel Digital Input with counter Modbus TCP Module

Specifications

Power Input Voltage DC +10V to +30V.
Protocol: TRP-ASCII and Modbus RTU/ASCII.
Input channel: 16 digital input channels with counter.
Input digital input counter: 0~65535.
Input optical isolation: 3750 Vrms.
Input logical level 0 +1V (max).
Input logical level 1 +4.0V ~ +30V.
Output channel: 4 channel power reply outputs.
Relay type: 2 Form A (RL1,RL2) , 2 Form C (RL3,RL4).
Contact ratting: 5A /30V DC , 5A /120V AC , 5A /250V AC.
Relay surge strength: 4000V.
Relay operating time: 3mS.
Relay operating life: 2 X 10(7).
Communication interface: Ethernet RJ45.
Configuration mode: Trycom Device Manager, WEB settings.
Matching remote control: with another TRP-C28H.
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℃.
Storage temperature:. -10 to 70℃.
Humidity: 10~90% Non-condensing.
Dimension: 151mm X 75mm X 26mm .
Weight: 395g .

Introduction

TRP-C28H an Isolated Digital Input with counter and AC Relay Modbus TCP Module, provides 4 channels optical isolated digital input channels and counter and 4 Channel AC Relay that allow you to input the logic signal from +/- 0 to 30V DC and 5A /250V AC relay on network, it supports 3 communication Protocal, TRP-ASCII, Modbus RTU / ASCII, TRP-C28H can be easy and convenient to use application supports Modbus. Software engineers can use the TRP-ASCII or Modbus RTU command set quickly and easily integrated into the self-development program, such as Microsoft VB, VC...

TRP-C28H built-in independent IP, WEB-browsing more convenient to rewrite the configuration and collect information through computers, tablet computers, smart phones, will be available!

TRP-C28H built-in watchdog function to ensure the normal operation of the module, and a built-in voltage monitoring to ensure that the boot, excellent and advanced hardware for harsh environment.
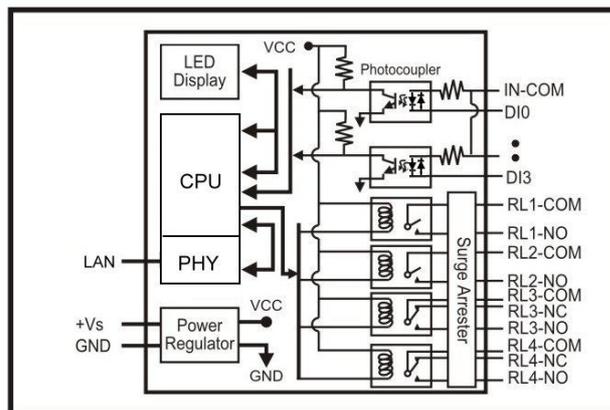
TRP-C28H with another TRP-C28H remote control directly, do not need to run the software and equipment.

TRP-C28H also offers the maximum connection 16 host client to link the network server that is easy to operate in Modscan32 ,Modbus Poll,CAS Modbus Scanner and SCADA ...application uses TCP mode and Virtual-COM mode.

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.
- Support Virtual-COM mode.
- WEB PAGE can be directly read IO status.
- 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 absorber 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/8 CH D I/O LED indicator.
- Dual power input select from screw terminal or DC-Jack.

Block Diagram

Application Note