TRP-C24
Isolated 16 CH. O.C RS485 Module

Specifications

- Power Input Voltage DC +10V to +30V.
- Protocol: ASCII and Modbus RTU.
- Digital output maximum voltage:+30V.
- Digital output maximum current: 100mA.
- Digital output isolation: 3750Vrms.
- Communication interface: RS-485 differential 2 half/duplex wires.
- Communication speed form 1.2Kbps to 115.2Kbps auto-switching.
- Data format: Data bit: 8, Parity Check: None, Stop Bit: 1.
- Distance: up to 4000ft (1200M).
- Connection type: Screw terminal for maximum AWG 12 wire.
- Signal LED: Power, and all output channels.
- Power supply: Screw terminal, or external DC adapter.
- Power consumption 1.5W.
- Operating environment: 0 to 50℃.
- Storage temperature:. -20 to 70℃.
- Humidity: 10~90% Non-condensing.
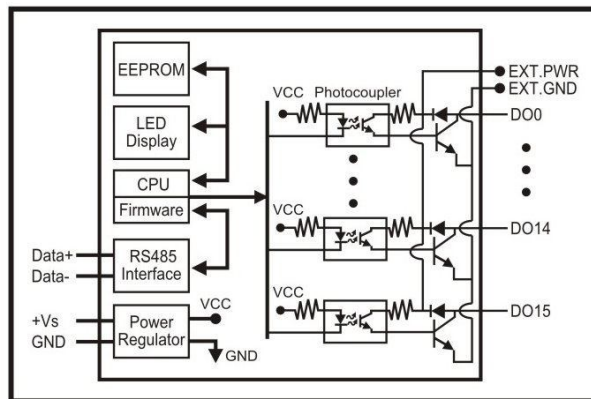- Dimension: 151mm X 75mm X 26mm .
- Weight: 395g .

Block Diagram

Introduction

The TRP-C24, an isolated output open collector RS-485 module, provides 16 digital outputs channels that allow you output open collector signal (100mA) to driven your devices on RS-485 network. All channels feature screw terminals for convenient connection of field signals as well as LED's to indicate channel working status. All outputs are equipped with photo-couplers to protect the module against high voltage spikes, as well as ground potential differences. For easy user access, TRP-C24 can enter configuration mode and self-test mode with outer dip-switch. TRP-C24 support both ASCII and Modbus protocol, with a full set of command, dual watch-dog, and auto reset function the module can be remote controlled by PC in ASCII or Modbus RTU protocol.

Features

- Wide input range DC power supply..
- Support ASCII and Modbus RTU protocol.
- Supports baud rates from 1.2Kbps to 115.2 Kbps.
- Digital output signal with 3750Vrms isolation protection.
- Dual watchdog: Module's firmware, host computer traffic.
- LED for each channels working status.
- DIN-Rail and panel mount support.
- Configured and self-test by external dip-switch.
- Support screw terminal and external DC power adaptor.

Application Note