



## TRP-C68 Isolated 8 CH. AI RS485 Module

### Specifications

- Resolution: 16 Bit
- Sample rate:  
Normal mode: 10 sample / sec (24 bit).  
Fast Mode: 60 sample / sec (16 bit).
- Bandwidth:  
Normal Mode: 15.72Hz.  
Fast Mode: 78.72Hz...fast.
- 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:  $\pm 10V, \pm 5V, \pm 2.5V, \pm 1.25V, \pm 650mV$ .  
Current:  $\pm 20 mA$ .
- CMRR: 92db min/50/60Hz.
- Analog input over voltage protection:  $\pm 48V$ .
- RS485 connector: Industrial plug-in screw terminal.
- Communication Interface: RS485, 2 wires.
- LED indicator: Power and communication.
- Transmission distance : 4000ft(1200M).
- Speed: From 1.2K to 115.2Kbps.
- Power consumption: 1.2 Watt.
- Power requirement: DC input from +10 to 30 V.
- Operating Temperature: 0 to 60°C.
- Storage Temperature: -20 to 60°C.
- Humidity: 10-90%, Non-condensing.
- Dimension: 151mm X 75mm X 26mm.
- Weight: 398g.

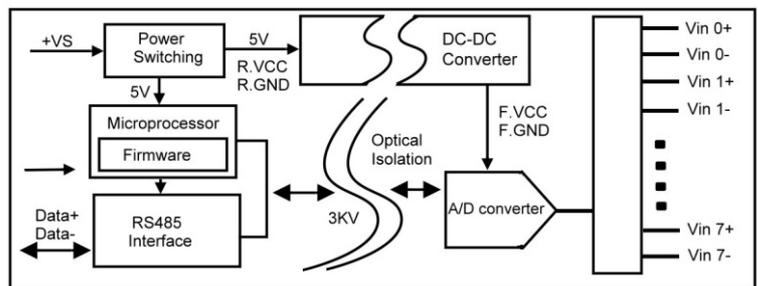
### Introduction

TRP-C68 Ver:2.1, an 8-channel Analog to Digital Converter (ADC), takes an analog input signal and converts the input into a digital output signal. It accepts analog input-a voltage or a current-and supports the sample rate in "Normal" or "Fast" mode. All channels feature screw terminals for convenient connection, All analog inputs are provided with isolation and surge protection to protect the module against high voltage spikes, as well as ground potential differences. TRP-C68 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. TRP-C68 version 2.1 has Built-in resistances to facilitate the user to select current or voltage mode.

### Features

- Support ASCII and Modbus RTU protocol.
- Photo Isolation 3750V between digital and analog.
- All channels can input analog signal by voltage or current.
- Baud rate from 1.2Kbps to 115.2Kbps.
- Surge protection on RS-485 interface.
- LED display to indicate power and communication.
- Dual Watchdog for hardware reset circuit and host operating status.
- External switch for hardware and module's configuration.
- Support screw terminal, or external DC power supply.
- Built-in 125 ohm resistors for each channel can be selected through internal Jumpers.
- Wide input range DC power supply.

### Block Diagram



### Application Note

