TRP-C37
Ethernet to RS232/422/485 Converter

- Maximum Connection 16 Client PC at Server Mode.
- Auto fast Bi-direction RS485 hardware .
- Surge protection and over current and over voltage on RS-422/485 data lines.
- Support baud rate from1200~921600Kbps.
- Auto switching RS-232/422/485 signal interface
- Virtual COM drivers for Windows 98/WIN2000/WIN XP/Vista/WIN2003/WIN 7.
- Virtual Com Support Server, Client, UDP mode.
- Fully compatible with Ethernet and TCP/IP protocol.
- Supports 10/100 Mbps Ethernet.
- Power/Link/RX/TX mode LED indicator.
- Heart Beat function ensures a reliable communicating connection.
- Auto Pair-mode when power or Ethernet fails.
- Back to factory by external switch.
- Support configuration by serial console.
- Update the firmware from Lan.
- Dual power input select from screw terminal or DC-jack.

Introduction

TRP-C37 is suitable industrial environment Ethernet serial server, wide range power input and serial communicate protection, Built-in surge, over current ,over voltage ensure long distance serial quality , the RS485 interface built-in hardware decoder ensure RS485 data without lost and fast direction switching , Specify hardware can keep on line RS485 device working fine; Increase external watchdog function will auto reset when Ethernet serial server or power fail, if careless lost password or IP that can easy to back to factory by external switch.

The TRP-C37 operates in "Direct IP Mode", "Virtual COM Mode", and "Paired Mode". It has one DB-9 serial port for RS232 connector and screw terminal block for RS422/485 and power . The Ethernet port support Auto-MDIX and Auto-select 10/100MB. TRP-C37 also offers a Heart Beat feature to ensure a reliable communicating connection.

The TRP-C37 support maximum connection 16 host clients to link the one serial server that is easy to operate in Modscan32 and Modbus Poll application uses Virtual-COM mode and Pair Mode.

 The TRP-C37 provides a watchdog timer function, The Watchdog timer allows the system to automatically recover from a system crash. When the TRP-C37M MCU stop working correctly, the watchdog timer waits for a preset period of time, and the performs a hardware reset.

When TRP-C37M working at industrial environment, if the voltage is unstable , The TRP-C37M built-in power detection circuit can prevent the power fail cause of the system boot fail.

Specifications

- Power Input Voltage: DC +10V to +30V.
- LAN: Auto-MDIX, 10/100 Mbps Auto-detecting.
- RS-232: TX, RX, RTS, CTS, DTR, DSR, DCD, GND.
- RS485 signal: differential 2 half-duplex wires (DATA+, DATA-).
- RS422 signal: differential 4 full-duplex wires. (TX+,RX+,TX-,RX-).
- Data Rate: 1200,2400.4800,9600,19200,38400,57600,115200K bps.
- Parity: none, even, odd.
- Data Bits: 5, 6, 7 or 8.
- Stop Bits: 1, 1.5 or 2.
- Protocol: TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP.
- External switch: OFF/OFF :TCP and VSP mode.
  - ON/OFF   : Option.
  - OFF/ON   :Option.
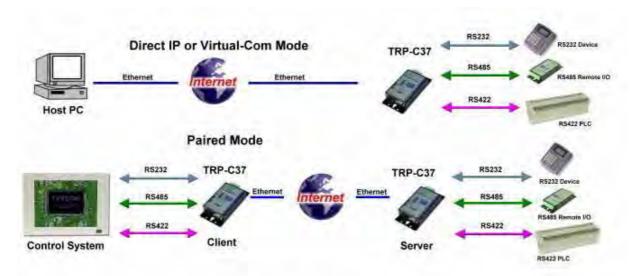 - ON/ON   :Back to Factory.
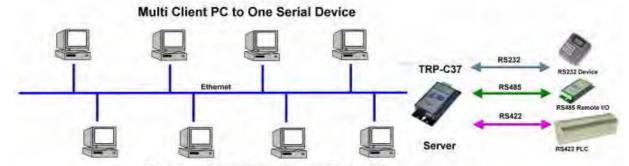- Virtual-Com mode support RS232 TXD,RXD,GND.
  - RS422 TX+,TX-,RX+,RX-.
  - RS485 DATA+,DATA-.

- Power supply: Screw terminal or DC jack.
- Serial interface: +/-15 KV ESD.
- RS422/485 interface: Surge, over current, over voltage protection.
- Power consumption: 12V/140mA.
- Operating Temperature:-10 to 65 ℃.
- Humidity: 0~90% Non-Condensing.
- Dimensions: 151(L)*75(W)*26(H) mm.
- Weight: 395g with packing.

Features

- Wide input range DC power supply.
- Power Input detection circuit.
- External watchdog function prevents system or power fail.
- Support Auto-MDIX twisted pair crossover detection and Auto-Correction.

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Application Note

Direct IP or Virtual-Com Mode

Paired Mode

Multi Client PC to One Serial Device

Maximum Client Connection : 16 Host PC

One TRP-C37 Server/Client to Multi Host BroadCase

Maximum Client Connection : 16 Host PC