

CPTI-4232

Quad Staefa SM2 TTL to RS-232 Interface



Centaurus Prime

Features

- ◆ Converts four Staefa SM2 TTL trunks to four RS-232 ports
- ◆ Optical and transformer isolation and TTL trunk protection
- ◆ Capable of up to a 9600 baud data rate

Applications

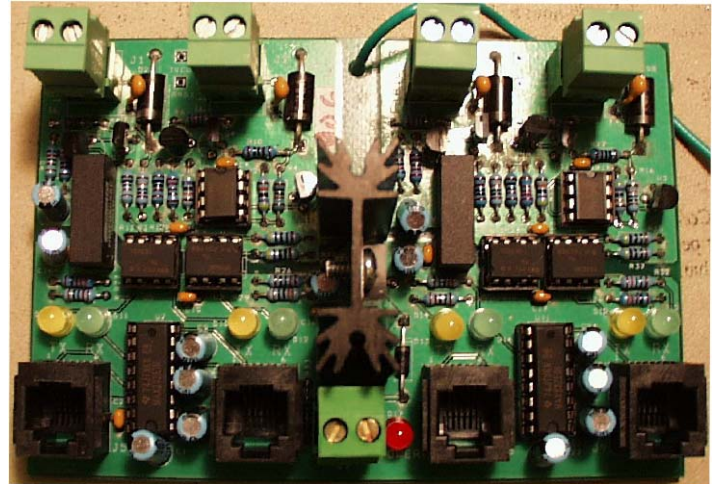
- ◆ Convert four Staefa Talon Network Manager RS-232 ports to four SM2 TTL communication trunks
- ◆ Convert four Tridium's Network Manager to four SM2 TTL communication trunks

Description

The CPTI-4232 is a quad, TTL to RS-232 interface module. It has been created to allow up to four Staefa Smart II communication trunks to connect with four RS-232 ports on a Tridium Jace Network Manager using the Smart II driver. It can also be used to interface four SM2 trunks to four RS-232 ports on the Staefa Talon Network Manager. RS-232 transmissions are converted to data on the SM2 trunk, and responses from the SM2 trunk are converted for reception on the RS-232 port. Baud rates up to 9600 have been successfully achieved with this proven interface. The TTL side of each SM2 trunk is protected with a Transient Voltage Suppression (TVS) diode and a polymer self-healing fuse device. Additionally the TTL side has 1000 volts of isolation from the RS-232 side of the circuitry, so the **Network Manager is always protected**. Boards can be easily replaced if necessary as all terminal blocks are removable.

Operation

There are no complex micro controllers with potentially undiscovered code bugs on the CPTI-4232. RS-232 to 5V signal conversion ICs interface to optocouplers that drive and receive from the SM2 interface circuitry. The SM2 TTL interface is powered by highly reliable, transformer isolated, DC/DC switching converters. The board uses 24 VAC or 9 to 24V DC as the input power, making it very versatile.



Specifications

Size	3.25" W x 4.75" L x 1.7" H
Mounting	3.25" W Snap Track (available)
Power	24V AC 50/60Hz, 1A
Trunk I/Os	Staefa's SM2 TTL and RS-232
Trunk Capacity	About 32 Smart II devices
Baud Rates	300 to 9600
Max. Trunk Length	TTL trunk: 2,500 feet RS-232: 50 feet
Trunk Wire	18 AWG Shielded twisted pair
RS-232 Port:	RJ-45 (cables available)

Options

Snap Track	4.75" length
RJ-45 to DB9	6 foot adapter
RJ-45 to RJ-45	6 foot adapter

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