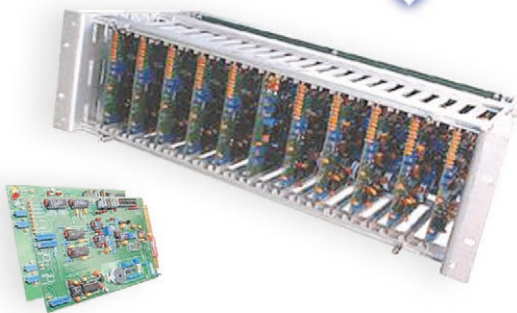


RCS-130

Rack controller system



Discriminator card, channel card



SIF-653

Serial interface data acquisition card

Description

The rack controller system, model RCS-130, uses a passive backplane which will accommodate up to ten channel cards, model RCS-110, and one discriminator card, model RCS-120. The RCS-130 is designed to work in conjunction with an SIF-653 interface card. These components can be used as part of a complete system, for research purposes, or to upgrade an existing system.

Channel card, model RCS-110:

Each channel card provides high voltage, amplification, and two independent single-channel analyzers. The high voltage and gains are manually adjusted on the card. The two SCA's can be used to provide amplitude discrimination between alpha and beta signals.

Discriminator card, model RCS-120:

The discriminator card provides four independent discriminator voltages to the channel cards in the same rack. Each voltage is individually programmed by the computer. The discriminator levels can also be adjusted manually.

Serial interface data acquisition card, model SIF-653:

The model SIF-653 card is the heart of a real-time data acquisition system. It provides twenty-one 16 bit digital counter channels (seven Intel 82C54 counters), and 24 digital I/O lines. A Z8 microcontroller handles all of the real time processing, and transmits the resulting data via the RS-232 port.

All of the counters are selectable to accept either differential signals, or single-ended CMOS level inputs. The RS-422 signals can be driven up to 1,000 meters using twisted pair wire. Port C on the Z8 can also be used to drive and receive RS-422 level signals, four outputs and four inputs.

The SIF-653 card can be plugged into a full-length PCI slot, or mounted as a stand-alone module. The PCI slot is only used to provide +12Vdc. The RS-232 interface is always used to read and write data.

Specifications

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Applications

The rack controller system, model RCS-130, can be used as part of a complete system, for research purposes, or to upgrade an existing system.

Due to its universal design, the serial interface data acquisition card, model SIF-653, can be used with nearly any computer system that has an RS-232 port.

TSA can also supply custom software for specific applications, including a comprehensive list of commands for customer use.