C20 Cassette Interface

FEATURES

- Extremely reliable tape read and write capability using CSI's newly developed high speed — high density format
- Built-in error detection and correction
- Switchable baud rate and parity
- User programmable protocol
- Two EIA RS-232-C ports

TYPICAL APPLICATIONS

- Transferring data from CSI Format Cassette Tapes to any computer
- Editing, archiving, processing and transferring data using the disk storage option

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DESCRIPTION

The C20 CASSETTE INTERFACE, developed by Campbell Scientific, allows users of the CR5, CR7 and CR21 dataloggers to read data tapes generated in either CSI's original format or the newly developed *high speed — high density format.* The new format, with a CR21 Micrologger, stores *180,000 data points* on one side of a C-60 tape and is read by the C20 at a rate of one-hundred data points a second (ten ASCII characters per data point. Note: Cassette recorder's recommended minimum operating temperature is 0 °C. Using a sophisticated error detection and correction technique, the C20 reads tapes with a high degree of reliability. Burst errors up to sixteen (16) data points in length are automatically corrected. Burst errors exceeding the C20's correction limitation are displayed as question mark characters in place of the erroneous data.

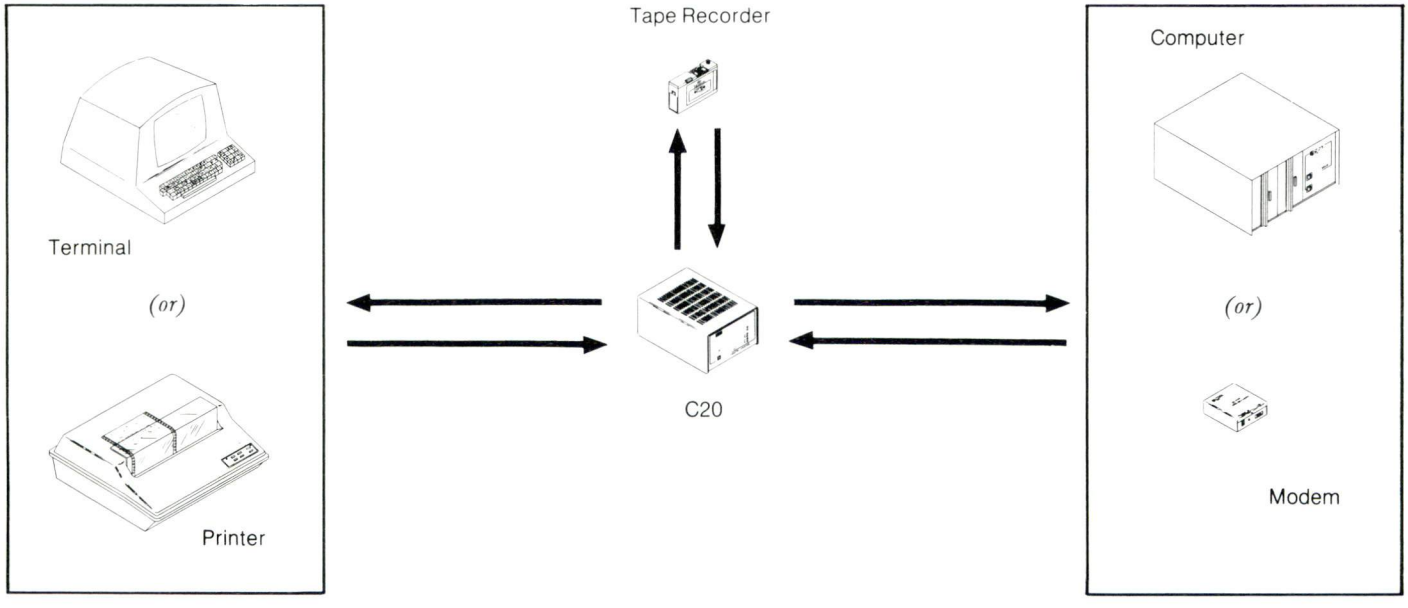
The C20 also generates tapes from terminals or computer stored information.

Baud rate, format selection, parity, protocol determination and *port configuration* are easily controlled by the user through switches conveniently located on the C20's front panel. There are eight (8) possible baud rate settings ranging from 110 to 19,200. Protocol is either user defined or automatically defined by the default mode.

In the user defined mode, the C20 can be programmed from either the terminal or the computer with such parameters as the user's own start/stop commands, preamble delay and postamble.

Equipped with two EIA RS-232-C ports, the C20 acknowledges commands and transmits data to both the computer/modem and terminal/printer or the computer only. In either mode, the C20 is transparent to all commands except those meant for it (i.e. start, stop) thereby causing minimal interference in the communication between terminal and computer. When not reading or writing to tape, the C20 is *totally* transparent without manually disconnecting it from either the terminal or the computer.

TYPICAL C20 CASSETTE INTERFACE CONFIGURATION



SPECIFICATIONS

Tape Read Rate (w/high density format)..... 1024 bytes/block, 1 block/5 sec.

Max. Burst Error Correction Capability..... 16 consecutive points (0.2 inch of tape)

Power Requirements..... 120/240 VAC @ 47-63 Hz, 16 watts typ.

Size..... 9.0"D x 8.2"W x 5.5"H

Tape Storage (w/high density format)..... 180K CR21 data pts. (360K bytes)/C-60 tape side

Baud Rates..... 110, 300, 600, 1200, 2400, 4800, 9600, or 19,200

Port Configuration..... (two) EIA RS-232-C

Weight..... 6.0 lbs.

For Ordering Information, please refer to Campbell Scientific's current price list.

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