The Model 2228D and Option 28D Data Communications Controllers are designed to support high level data link protocols. The Model 2228D Data Communications Controller adds communications capabilities to a Wang 2200 Series LVP or MVP central processor. The Option 28D Data Communications Controller for the SVP central processor is functionally equivalent to the Model 2228D controller.

Each of these communications controllers has two electrical connectors and a toggle switch to provide switch-selectable support for either the Electronic Industries Association (EIA) RS-232-C or RS-449 standard. (The RS-449 standard includes the RS-422 balanced circuit support.) These controllers also support the international CCITT counterpart V.24 to the EIA RS-232-C standard.

Each controller has 2K of Erasable Programmable Read Only Memory (EPROM), and 62K of Random Access Memory (RAM). The controllers also have their own microprocessor, thus allowing separate tasks related to data transmission and reception to be performed by the controller and the central processor concurrently. Data transfer between the controller and the RS-232-C connector or the RS-449 connector is performed with great speed and efficiency by using a four channel Direct Memory Access (DMA) controller. DMA transfer is also used between the controller and the central processor. Transmission and reception of digital data in the NRZ/NRZI (Non-Return-to-Zero and Non-Return-to-Zero-Invert) modes is an option for both the 2228D and Option 28D controllers. Bit insertion for higher level data link protocols is also supported.

The 2228D/Option 28D controller is equipped with an on-board power-up diagnostic. The top rail of the controller has a light emitting diode (LED) that informs the user, after power-up, whether the board is operating successfully or has encountered an error that requires intervention.

- Power-up diagnostic allows immediate recognition of board status via rail-mounted LED
- Switch selectable compatibility with either the EIA RS-232-C (CCITT V.24) or the EIA RS-449 standard
- Four independent Direct Memory Access (DMA) channels facilitate fast, efficient data transfer between the controller and either the RS-232-C or RS-449 interface
- Supports Wang communications software
SPECIFICATIONS

Model Numbers
2228D-4/Option 28D-4 Data Communications Controller, 64K, with RS-232-C (CCITT V.24) cable
Or
2228D-4A/Option 28D-4A Data Communications Controller 64K, with RS-449 cable

Power Requirements
Supplied by the central processor

Electrical Connection
Toggle switch activated 25-pin RS-232-C, V.24 compatible connector or 37-pin RS-449 compatible connector

Cable
If a Model 2228D-4 or Option 28D-4 board is ordered, a 12-foot RS-232-C (CCITT V.24) cable is included.
If a 2228D-4A or Option 28D-4A board is ordered, a 12-foot RS-449 cable is included.

Modem Selection
The Model 2228D/Option 28D Data Communications Controller has an RS-232-C (V.24) or RS-449 Data Terminal Equipment (DTE) interface that can accept a cable from a compatible Data Communication Equipment (DCE) interface.

ORDERING SPECIFICATIONS
An RS-232-C (CCITT V.24) and RS-449 compatible data communications controller with a microprocessor, 64K of memory, buffers, and transmitter/receiver circuits capable of performing specific tasks related to data transmission/reception via leased communications links when used in conjunction with available Wang software, such as the 3271 Emulation. The controller must be available in a version suitable for installation in the central processor of the 2200 system to be used for data communications. The 12-foot cable (either RS-232-C or RS-449 compatible) must be supplied.

Standard Warranty Applies

Wang Laboratories reserves the right to change specifications without prior notice.
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