

Technical Data
Direct I/O Serial Interface

For HP 9000 Series 300 Computer Systems
Product Number
98626A

The HP 98626A Serial Interface is an RS-232-C* compatible interface used for simple asynchronous I/O applications such as driving line printers and terminals.

* RS-232-C is a data communication standard established and published by the Electronic Industries Association (EIA). Copies of the standard are available from the association at 2001 Eye Street N.W., Washington D.C. 20006. Its equivalent for European applications is CCITT V.24.

Features

- | EIA RS-232-C (CCITT V.28/V.24) compatibility
- | Data rates from 50 to 19,200 baud (bits/second)
- | Software selectable baud rate
- | Series 300 terminal emulation software compatibility
- | Software selectable character length and number of stop bits
- | Software selectable parity configuration
- | Interface to terminals, modems, and current loop pod

Functional Specifications

Maximum Transfer Rates

BASIC 2.0 and HPL: Handshake

Input 19,200 baud

Ouptut 19,200 baud

Data Rates

Standard switch selectable data rates (bits per second) available are:

50	75	110	134.5
150	200	300	600
1200	1800	2400	3600
4800	7200	9600	19200

Interrupt Capability

The HP 98626A Serial Interface Card can be programmed to interrupt the computer on the following conditions:

Under BASIC 2.0:

- Receiver buffer full
- Transmitter buffer empty
- Receiver buffer overrun error
- Received break indication
- Received character parity error
- Received character framing error
- Carrier detect line change
- Clear-to-send line change
- Data-set-ready line change
- Ring indicator change from on to off

Under HPL:

- Input buffer full
- Output buffer empty

Interrupt buffer transfers are supported by the BASIC Advanced Programming Binary for the 98626A Serial Interface.

Switch Configuration

The following switches can be configured on the interface card:

Select Code: The factory select code setting is 9; valid select code settings are:

BASIC & Pascal	8–31
HPL	1–6, 8–15

Interrupt Level: The factory interrupt priority level setting is 3; a valid interrupt level settings is from 3 to 6.

Parity: A 3-bit switch is available to enable or disable parity, select even or odd parity, or select fixed '1' or fixed '0' parity bit; the factory setting is disable, odd, and fixed '0' parity.

Character Length: A 2-bit switch selects between 5, 6, 7, or 8 bits per character length; the factory setting is 8 bits per character length.

Baud Rate Select: Allows power up/reset selection for the baud rate. Refer above to the baud rates available for switch selection; the factory setting is 2400 baud.

Stop Bits: A 1-bit switch selects between 1 stop bit per character or 1.5 stop bits per character. If the number of bits per character is 6, 7, or 8, then the stop bits switch selects between 1 stop bit per character or 2 stop bits per character; the factory setting is 2 stop bits per character.

Modem Line Disconnect: A 4-bit switch allows the Ring Indicator, Data Set Ready, Clear To Send and/or Carrier Detect lines to be disconnected and tied high; the factory setting is disconnected.

Ordering Information

Earliest Language Version Required: BASIC 1.0, Pascal 2.0, HPL 1.0, and HP-UX 2.0

The HP 98626A Interface includes:

98626-66501 Serial Interface Card
98626-90000 Service Manual

HP 98626A Options

- 001** 4.9-meter (16 ft) cable with DTE male connector (5061-4215)
- 002** 4.9-meter (16 ft) cable with DCE female connector (5061-4216)

Supported Connection Products

HP 13265A 300 Baud Modem
HP 13266A Current Loop Interface

Fuse for Replacement/Spare: 2110-0712