
Direct I/O RS-232 Serial Interface

Technical Data

**For HP 9000 Series 200/300
Computer Systems
Product Number
HP 98644A**

The HP 98644A Serial Interface is an RS-232-C* compatible interface used for simple asynchronous I/O applications with HP 9000 Series 200 or 300 systems. This includes driving terminals, line printers, and modems.

* 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 20001 Eye Street N.W., Washington D.C. 20006. Its equivalent for European applications is CCITT V.24.

Features

- Inexpensive serial interface
- EIA RS-232-C (CCITT V.28/V.24) compatibility
- Modem control
- Data rates from 50 to 19,200 baud
- Software selectable character length and number of stop bits
- Software selectable parity configuration
- Software selectable baud rate
- Interface to Series 200/300 RS-232-C compatible peripherals—terminals, modems, printers
- Support of remote keyboard enable
- Interrupt capability through status or modem signal lines
- Standard 25-pin connector compatibility

Functional Specifications

Physical Specifications

Length: 14.6 cm (5.75 in)
Width: 19.2 cm (7.56 in)
Thickness: 2.95 cm (1.16 in)
Weight: 0.94 kg (0.43 lbs)
Shipping Weight: 2.29 kg (1.04 lbs)

Environmental Specifications

Temperature: 0°C to 55°C (32°F to 131°F)
Relative Humidity: 5% to 95% at 40°C (104°F)
Altitude: 4,572 meters (15,000 feet)

Electrical Specifications

+5 V supply	2.03 watts
+12 V supply	0.30 watts
-12 V supply	0.03 watts

Total Power Consumption: 2.36 watts RMS. This card does not have battery backup capabilities.

Data Rates

Standard software selectable data rates (bits/second) available:

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

The HP 98644A interface is recommended for use in character mode applications only.

Pin and Signal Assignment

1	Frame Ground
2	Transmitted Data
3	Received Data
4	Request to Send
5	Clear to Send
6	Data Set Ready
7	Signal Ground
8	Carrier Detect
20	Data Terminal Ready
22	Ring Indicator
23	Data Rate Select

Comparison with HP 98626A RS-232-C Interface

- The HP 98644A uses a standard 25-pin female DTE connector instead of the 50-pin connector used in the HP 98626A.
- The HP 98644A will not support the following connection products: HP 13265A 300 Baud Mode or 13266A Current Loop Interface. These products are supported with the 98626A serial interface. They take their power via the 50-pin interface connector. The HP 98644A does not provide power through its 25-pin connector.
- The HP 98644A has no switches for setting the baud rate and the character format. These parameters are software programmable.

Ordering Information

Earliest Language Version Recommended: BASIC 3.0, Pascal 3.0, HP-UX 2.1.

The 98644A RS-232 Serial Interface includes:

98644-66502 Serial Interface Card

98644-90002 Installation and Reference Manual

Recommended Cables:

Cables must be ordered from HP.

HP 13222Y 5-meter cable for 262X Terminals (25-pin male to 50-pin male)

HP 13232Y 4.5-meter cable for 264X Terminals (25-pin male to 264X)

HP 13242G 5-meter cable for Terminals and 2601A printer (25-pin male to 25-pin male)

HP 13242N 5-meter for Modems (25-pin male to 25-pin male)

The test connector (P/N 98644-67950) is available from HP's Corporate Parts Center (CPC).

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