**HEWLETT PACKARD**

# Direct I/O RS-232 Serial Interface

# Technical Data

**For HP 9000 Series 200/300
Computer Systems
Product Number
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 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 98644A uses a standard 25-pin female DTE connector instead of the 50-pin connector used in the 98626A.
- The 98644A will not support the following connection products: 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 98644A does not provide power through its 25-pin connector.
- The 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's Direct Marketing Division (DMK).

**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).