

Technical Data
High-Speed RS-422 Interface

For HP 9000 Series 300 Computer Systems
Product Number
98659A

The HP 98659A High-Speed RS-422 Interface allows high-speed transfer of object code between HP 9000 Series 300 computers and HP 64700 Series emulators, and provides the communication link between the HP 64700 Series emulator and the user at the HP 9000 Series 300. The 98659A allows the HP 64700 Series emulator to be an effective, high-performance component of the HP 64000-UX Advanced Integration Environment. The HP 98659A interface card is used with HP 9000 Model 320, 330, 350, 360, and 370 computers.

Features

- † Asynchronous serial RS-422 communications
- † Optimized for communication links with HP 64700 Series emulators
- † Supports data transfer rates up to 460,800 baud

- Data formats of 5, 6, 7, or 8 bits/character and 1 or 2 stop bits
- Selectable odd, even, or no parity

Functional Specifications

The 98659A is a character device using block mode structures to improve performance when transferring large amounts of data. It is not a standard TTY type device.

Baud Rates Supported

The following data rates are supported with internal clocking:

50	75	150
200	300	600
1200	1800	2400
4800	7200	9600
19200	57600	230400
460800		

External Clocking:

- EXTA is an external 16X clock
- EXTB is an external 1X clock

Character Size: 5, 6, 7, 8 bits

Stop Bits: 1 or 2

Parity: Odd, Even, None

Handshaking:

- + Supports HP 64700 Series Hardware Handshaking Protocol
- + Xon/Xoff pacing at baud rates up to 19200

Modem Control:

- + DTR and DSR
- + CTS is used only to control output pacing
- + RTS is used as a reverse channel CTS
- + Does not support CCITT modem control protocol

Input Processing Supported:

- + Canonical EOF, EOL, and LF processing
- + Non-Canonical Time and Minimum Character processing

Internal Buffers on Card:

- | Write Buffer is 6144 bytes
- | Read Buffer is 8192 bytes or 255 lines when in Canonical input mode

Electrical Specifications

HP 98659A power consumption (typical):

+5 V at 710 mA
+12 V at 37 mA
-12 V at 60 mA

Electrical Interface Compatibility: RS-422 (similar to CCITT V.11)

Physical Description

Size: 13.5 cm by 17.0 cm (5.3 in by 6.6 in)

Weight: 310 grams (11 oz)

Environmental Characteristics: See SCSI Peri Host Adapter

Operating Temperature:
0°C to 45°C (32°F to 113°F)

Relative Humidity: 0% to 80% noncondensing

Ordering Information

HP 98659A includes:

5-meter cable (terminates in 25-pin male connector for use with HP 64700 Series emulators)