



**HP 27128A**

**Asynchronous Serial Interface (ASI)**

**Installation Manual**

**Card Assembly: 27128-60001**

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This manual provides information for you to install and verify correct operation of the HP 27128A Asynchronous Serial Interface (ASI) card. You will also need the appropriate computer system installation manual. These two manuals should provide all the required information. If your installation is such that you need additional information concerning the ASI card, order the HP 27132A Technical Reference Package from the nearest Hewlett-Packard Sales and Service Office.

## Installation and Checkout

To install and check the operation of the ASI card, follow the steps below in the order given:

1. Determine if your computer system can supply the power needed for the ASI card. Refer to table 1 for power requirements.
2. Set the switches on the card for proper operation in your system. Refer to tables 2 and 3 for switch information.
3. Install the card in the appropriate slot in the computer. Refer to the computer system installation manual to determine the correct slot.
4. Connect the cable, supplied with the card, from J2 on the card to the peripheral device. If you have the diagnostic test hood, which exercises slightly more of the card's circuitry, and can be ordered (Hewlett Packard part number 1258-0207), connect it to J2 instead of connecting the cable.
5. Turn on computer system power.
6. A self-test is contained on the card. The host computer system determines if the self-test is run automatically at power-on or must be invoked by the user. Refer to the appropriate manual for your system for a description of self-test initiation.
  - a. If the diagnostic test hood is not installed when the self-test executes, the LED located on the card should light briefly and go out. This indicates that the card passed self-test. If the LED does not light at all, the card is defective. If the LED stays on, the card did not pass self-test. In either of the latter two cases, return the card to Hewlett-Packard (refer to the "RESHIPMENT" paragraph for details).
  - b. If the diagnostic test hood is installed when the self-test executes, the LED located on the test hood should light briefly and go out if the card passed self-test. If the test hood LED stays on or does not light, the causes are the same as in step 6. a.
7. Refer to your system documentation for information on determining if the system can talk to the ASI card.

## Reshipment

If the ASI is to be shipped to Hewlett-Packard for any reason, attach a tag identifying the owner and indicating the reason for shipment. Include the part number of the ASI.

Pack the card in the original factory packing material, if available. If the original material is not available, good commercial packing material should be used. Reliable commercial packing and shipping companies have the facilities and materials to repack the item. **BE SURE TO OBSERVE ANTI-STATIC PRECAUTIONS.**

**Table 1. Power Requirements**

Voltage	Current	Power Dissipation
+ 5V	1.29A	6.45W
+12V	0.054A	0.65W
-12V	0.073A	0.87W

**Table 2. Configuration Switch Definitions**

Switch Number							
SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Function							
Single Text Term (when open)	Hard-Wired (when open)	No Parity (when open)	8 Data Bits (open, 8 bits; closed, 7 bits)	Baud Rate Bit 3	Baud Rate Bit 2	Baud Rate Bit 1	Baud Rate Bit 0
					(open = logic 1, closed = logic 0)		

**Table 3. Baud Rate Switch Settings**

Switches				Baud Rate
SW5	SW6	SW7	SW8	
0	0	0	0	50
0	0	0	1	75
0	0	1	0	110
0	0	1	1	134.5
0	1	0	0	150
0	1	0	1	300
0	1	1	0	600
0	1	1	1	900
1	0	0	0	1200
1	0	0	1	1800
1	0	1	0	2400
1	0	1	1	3600
1	1	0	0	4800
1	1	0	1	7200
1	1	1	0	9600
1	1	1	1	19200

**Table 4. RS-232-C Male Cable (Part Number 8120-4008) Pinouts**

<b>Cable Connector Pin No.</b>	<b>ASI Card Connector J2 Pin No.</b>	<b>Function</b>
1	Shield	
2	A22	Transmitted Data
3	A9	Received Data
4	B15	Request to Send
5	A8	Clear to Send
6	A12	Data Set Ready
7	B7,B8,B9,B10 B11,B12,B13,B14,	Signal Ground
8	A14	Receiver Ready
9	—	Not Used
10	—	Not Used
11	—	Not Used
12	B16	Secondary Receiver Ready
13	A16	Secondary Clear to Send
14	B17	Secondary Transmitted Data
15	—	Not Used
16	B18	Secondary Received Data
17	—	Not Used
18	—	Not Used
19	A17	Secondary Request to Send
20	A15	Data Terminal Ready
21	—	Not Used
22	B19	Incoming Call
23	B21	Data Signal Rate Selector
24	—	Not Used
25	—	Not Used

**Table 5. RS-232-C Female Cable (Part Number 8120-4012) Pinouts**

<b>Cable Connector Pin No.</b>	<b>ASI Card Connector J2 Pin No.</b>	<b>Function</b>
1	Shield	
2	A9	Transmitted Data
3	A22	Received Data
4	A8	Request to Send
5	B15	Clear to Send
6	A15	Data Set Ready
7	B7,B8,B9,B10, B11,B12,B13,B14	Signal Ground
8	—	Not Used
9	—	Not Used
10	—	Not Used
11	—	Not Used
12	—	Not Used
13	A17	Secondary Clear to Send
14	—	Not Used
15	—	Not Used
16	—	Not Used
17	—	Not Used
18	—	Not Used
19	A16	Secondary Request to Send
20	A12	Data Terminal Ready
21	—	Not Used
22	—	Not Used
23	—	Not Used
24	—	Not Used
25	—	Not Used



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