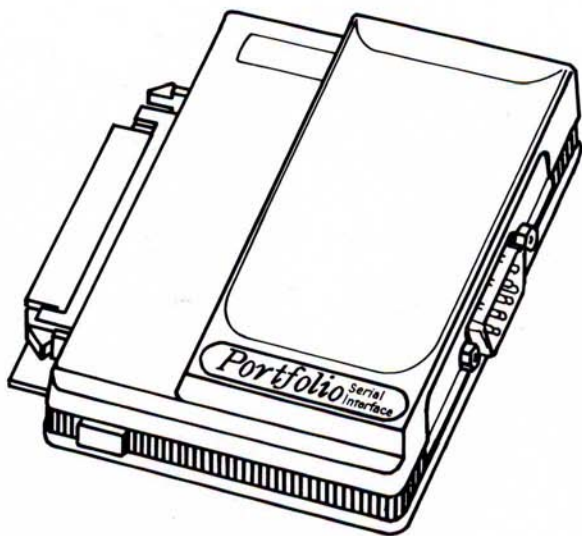




# *Portfolio*<sup>™</sup>

## **Serial Interface**

(Model HPC-102)



**Owners Manual**



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# INTRODUCTION

The Portfolio Serial Interface is an optional peripheral that plugs into the bus expansion connector on the right side of the Portfolio. The serial interface provides RS232-C compatibility.

This guide is designed to help you correctly install and use the Portfolio Serial Interface. With the interface you can connect the Portfolio to any RS232-C interfaced device such as a serial printer or modem. The RS232-C connector is a standard male, 9 pin, D-type connector.

You can use the Portfolio Serial Interface to:

- Print Portfolio files on a serial printer.
- Transfer files between Portfolio and an IBM PC, AT, PS/2 or compatible with appropriate software.

**Note:** Portfolio's power consumption is higher when using the serial interface than in normal use. We suggest you use an A.C. adapter for Portfolio when using the serial interface.

## EQUIPMENT

If you wish to use your Portfolio Serial Interface to print or transfer files you must provide additional equipment.

## Equipment Needed for Printing

- A printer with an RS232-C serial interface. A printer supporting the IBM extended character set is preferred.
- An RS232-C shielded cable. Cable ends must be: one 9-pin female D-type connector for the Serial Interface, and one appropriate connector for the printer.

(See **Appendix C, Portfolio Serial Cable Pinouts and Cable Wiring Diagrams** for typical cable wiring.)

- Optional: A small screwdriver to attach the connectors to the Portfolio and printer.

## Equipment Needed for File Transfer or Modem

- An RS232-C shielded cable. Cable ends must be: one 9-pin female D-type connector for the serial interface, and one appropriate connector for the IBM PC or compatible, or modem.

(See **Appendix C, Portfolio Serial Cable Pinouts and Cable Wiring Diagrams** for typical cable wiring.)

- File transfer or telecommunications software.
- Optional: A small screwdriver to attach the connectors to the Portfolio and IBM PC compatible.

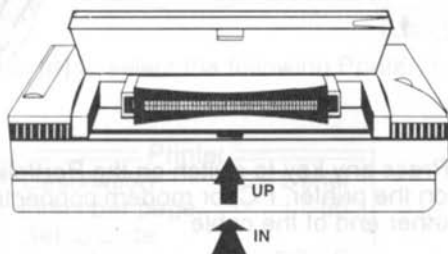
# INSTALLING THE INTERFACE

Follow these instructions to install the interface:

1. Use one of the following methods to switch off the Portfolio:

Type **OFF** and press **[L]**, hold down **[Fn]** and press **[O]**.

2. Turn Portfolio on its back. Press the outer edge of the expansion bus cover in and up as shown in the diagram.



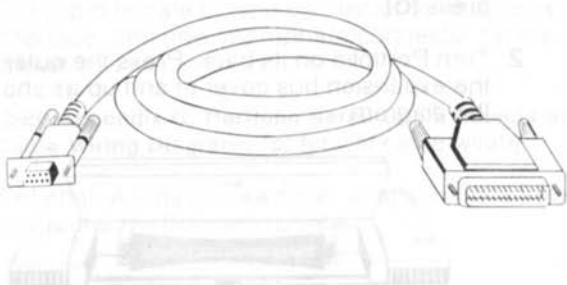
3. Slide the Portfolio Serial Interface into the bus connector as shown below.





Continue to slide the Portfolio Serial Interface into the bus connector until you hear clicks as the retaining clips engage.

4. Connect the appropriate shielded cable for file transfer, modem, or printing to the Portfolio and the other device. A modem cable is shown below.



5. Press any key to switch on the Portfolio. Switch on the printer, PC, or modem connected to the other end of the cable.
6. Refer to the following sections for serial communications setup.

## DE-INSTALLING THE INTERFACE

Follow the steps below to de-install the serial interface:

1. To switch off the Portfolio type **OFF** and press **[J]**, or hold down **[Fn]** and press **[O]**.
2. Press the release buttons on the front and back of the interface and pull the interface out of the bus expansion connector.

# PREPARING TO PRINT FROM INTERNAL APPLICATIONS

Follow these instructions to print from internal applications:

1. First set up the printer parameters in Setup.

Display the Applications menu. Press **[Ctrl] [S]** to select Setup.

**Note:** If you are in another application or within DOS, hold down **[Alt]** and press **[S]** to select Setup.

2. Press **[P]** to select the following Printer menu:

Printer	
Destination	Serial
Lines per page	66
Setup code	
End of line...	CR-LF
Margins...	

## Destination

Press **[D]** to select Destination. Press **[S]** if the destination is not set to Serial.

## Lines per Page

Choose from 41 to 99 lines per page, depending on your paper length. The standard page length for 8½ x 11 paper and the default for this option is 66 lines.

Set the number of lines per page to 0 if you are using continuous forms and want no page breaks.

**Note:** Portfolio does not pause between printing individual pages.

## Setup Code

This option allows you to send a command sequence of instructions of up to 128 characters to the printer. For example, you can send a command sequence to a printer to set it into condensed print mode. Refer to the printer's manual for further command information.

**Note:** Try printing without a Setup code if you are unsure about whether your device requires one.

If you wish to send a control character, prefix it with a backslash **[ \ ]** followed by the three figure ASCII number in decimal. You can also type the control character directly with the **[Shift] [6] ( ^ )** prefix.

For example, many printers accept a code of **[Ctrl] [O]** (decimal 15) to select condensed print. In this case, press **[ \ ]** and type in **015**, or **[Shift] [6]** and then **[O]**.

## End of Line

Some printers expect a carriage return (CR) or a line feed (LF) or both at the end of each printed line. Check your printer's manual for the correct line ending.

The most common line ending is CR-LF. Try printing with CR-LF. If the output is double-spaced (if there is a blank line between each line of text) select CR.

If printing is single-spaced with CR-LF and you want double-spaced text, set this option to CR-LF-LF.

## Margins

Use this option to set the top, bottom and left margins.

You can set the above three margins for any value from 0 to 20. The right margin is not set using Setup, but is set within each application.

The left margin is the number of unused columns between the left edge of the page and the main body of text. The default is 8.

The top margin is the number of blank lines between the top of the paper and the text. The default is 6.

The bottom margin is the number of blank lines below the text before the bottom of the paper. The default is 2.

The number of lines printed on each page is determined by the top margin, the bottom margin and the Lines Per Page command described above. The number of lines per page includes the top margin and the bottom margin. Since this default is 66, the default number of text lines on each page is 58 ( $66 - 6 - 2 = 58$ ).

## PREPARING THE INTERFACE FOR PRINTING

If you restarted Portfolio, (pressed **[Ctrl] [Alt] [Del]**, reset or cold-booted), the Portfolio Serial Interface will assume the default settings of 2400 baud rate, No parity, 8 data bits and 1 stop bit. Setup's RS232-C port menu can be used to change these values.

The RS232-C port menu displays current values and allows you to change them but will not have initialized the interface to these values. Select Initialize from the Setup menu to set the new values. You must reset the values and re-initialize after any form of restart.

### Setting Parameters

Use the following procedure to change parameters:

Display the Applications menu. Press **[S]** to select Setup.

**Note:** Hold down **[A]** and press **[S]** if you are in another application or DOS.

Press **[R]** to select the RS232-C port menu. Choose from the following options:

RS232-C port	
Baud rate...	2400
Parity...	None
Data bits...	8
Stop bits...	1
Initialize!	

Press **[B]** to display the following menu:

Baud rate
9600
4800
2400
1200

Use the cursor keys to move between the selections. Press **[J]** to select the baud rate next to the cursor, or type the first number of the desired baud rate and press **[J]**.

**Note:** To display baud rate selections below 1200 press **[Down Arrow]** repeatedly.

Use the baud rate selection method for setting Parity, Data bits, and Stop bits. The settings and their allowed values are shown below.

#### Communication Parameters

Baud rate.....	9600, 4800, 2400, 1200, 600, 300, 150, 110
Parity.....	None, Even, Odd
Data bits.....	8, 7
Stop bits.....	1, 2

**Warning:** After installing, warm/cold-booting, resetting or changing parameters you must select Initialize to use the new settings.

## PRINTING FROM INTERNAL APPLICATIONS

Use the following procedure to print from internal applications:

1. Enter the program and load the file to print.
2. Press **[F1]** (or press and release **[A]**) to view the applications main menu.
3. Follow the application specific instructions below.

### Address Book, Editor, Diary

Press **[Ctrl] [F]** to select the Files menu, and **[Ctrl] [P]** to print.

The message **Printing...** will display. Press **[Esc]** at any time to stop printing. On successful completion of printing, the last page is ejected (with a form feed character).

If the printer attempts to print beyond the right edge of the paper, either reduce the left margin or reduce the width of your text from within the application.

### Worksheet

Spreadsheets are often wider than standard paper widths. You can print portions of a spreadsheet by selecting **Files...** to **Print...** to **Range**.

Any portion of the spreadsheet which extends beyond the right margin prints on the next page before the lower parts of the sheet.

To initiate printing, select Go! from the **Files...** to **Print** menu.

## Calculator

If the printer is set to ON in the calculator's menu, each calculation will print when [J] is pressed.

**Note:** The calculator always ejects a page at the end of each printed calculation, even if the page length is set to 0 in Setup.

## PRINTING FROM DOS

You can print a file directly from the DOS command. Type:

```
COPY FILENAME.EXT AUX [J].
```

This will ignore the margins and other settings in Setup.

You cannot use the print screen key combination ([Fn] [P] or [Ctrl] [Fn] [P]) to print with the Portfolio Serial Interface.

## PORTFOLIO TO PORTFOLIO COMMUNICATION

Each end of the RS232-C cable used must have a loopback from the DTR to the DSR pin, and a loopback from the CTS to the RTS. (See **Appendix C, Portfolio Serial Cable Pinouts and Cable Wiring Diagrams** for wiring diagrams.)

Each Atari Portfolio computer needs a Portfolio Serial Interface. All other types of file transfers require only one Portfolio Serial Interface.



**Note:** Communications software is necessary for file transfers between the Atari Portfolio and an IBM PC compatible computer, or Portfolio to Portfolio. Portfolio's built-in file transfer software is designed for the Smart Parallel Interface only.

# APPENDIX A

## ERROR MESSAGES

### FILE NOT FOUND

The filename specified is incorrect or the file does not exist.

### NOT READY ERROR

This message displays if the Portfolio Serial Interface cannot communicate with your printer, or the serial interface is not set up correctly.

Check that the printer is switched on and the cable is connected.

From the Setup menu, check that the printer is set to serial and that the baud rate, parity, data bits and stop bits are correct at both ends.

Finally, check that the printer cable has been correctly wired.

### TIMEOUT ERROR

This message displays if the Portfolio Serial Interface cannot communicate with your printer, or the Portfolio Serial Interface is not set up correctly.

Check that the printer is switched on and the cable is connected.

From the Setup menu, check that the printer is set to serial and that the baud rate, parity, data bits and stop bits are correct at both ends.

Finally, check that the printer cable has been correctly wired.

# APPENDIX A ERROR MESSAGES

FILE NOT FOUND  
The filename specified is incorrect or the file does not exist.

## NOT READY ERROR

The message displays if the Portfolio Serial Interface cannot communicate with your printer, or the serial interface is not set up correctly.

Check that the printer is switched on and the cable is connected.

From the Setup menu, check that the printer is set to serial and that the baud rate, parity, data bits and stop bits are correct at both ends.

Finally, check that the printer cable has been correctly wired.

## TIMEOUT ERROR

The message displays if the Portfolio Serial Interface cannot communicate with your printer, or the Portfolio Serial Interface is not set up correctly.

Check that the printer is switched on and the cable is connected.

From the Setup menu, check that the printer is set to serial and that the baud rate, parity, data bits and stop bits are correct at both ends.

Finally, check that the printer cable has been correctly wired.

## **APPENDIX B TROUBLESHOOTING**

### **Printer prints everything on one line**

Select the CR-LF option on the **Printer...** to **End of Line** section or, if this is already set, select CR-LF-LF.

### **Printer does nothing**

Make sure that the printer has not run out of paper.

Check the cable connections and make sure that the printer is switched on and on line.

Check the baud rate, parity, data bits, and stop bits at the sending and receiving ends.

Initialize the Portfolio if any of the parameters have changed. Check the parameters, then select Initialize from the RS232-C port menu.

### **Application says printing; printer does nothing**

Check that the output destination on the Printer menu. Select the Serial option and not File or Parallel.

Check the cable connections and make sure that the printer is switched on and on line.

Check the baud rate, parity, data bits, and stop bits at the sending and receiving ends.

Initialize the Portfolio if any of the parameters have changed. Check the parameters, then select Initialize from the RS232-C port menu.

## **Printer is not leaving top and bottom margins**

The printer will not form feed if page length is set to 0. Set page length to 66 for 8½ x 11 paper.

## **Printer is printing top and bottom margins at wrong place**

Make sure your printer "knows" where the top of the page is. If your printer has a TOF button, use the button to set the top of form.

The page length setting may be incorrect for the paper being used. Vary the page length setting in the **Setup...** to **Printer** menu until the correct value is obtained.

## **Lost characters during transmission**

Select a lower baud rate at both the sending and receiving ends, or make sure cable wiring provides for proper "handshaking."

## **Characters received, but incorrect**

Check parity, data bits, stop bit settings and baud rates. Match these settings at the sending and receiving ends.

# APPENDIX C

## PORTFOLIO SERIAL CABLE

### PINOUTS AND CABLE WIRING

### DIAGRAMS

#### Pin Names and Functions

Pin Number	Pin Name	Function
1	CD	Carrier Detect
2	RD	Receive Data
3	TD	Transmit Data
4	DTR	Data Terminal Ready
5	GND	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request To Send
8	CTS	Clear To Send
9	RI	Ring Indicator

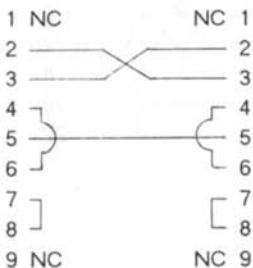
#### Portfolio Serial Cable for IBM PC/AT

##### PORTFOLIO DB9-S CONNECTOR

<u>Signal</u>	<u>Pin</u>
CD	1 NC
RD	2
TD	3
DTR	4
GND	5
DSR	6
RTS	7
CTS	8
RI	9 NC

##### IBM PC/AT DB9-S CONNECTOR

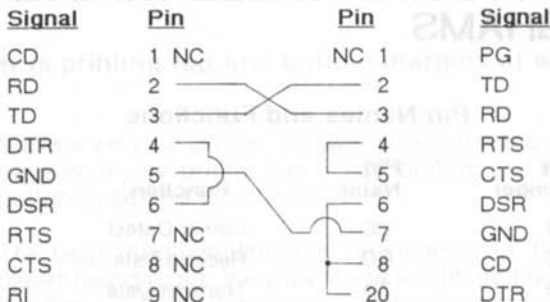
<u>Pin</u>	<u>Signal</u>
NC 1	CD
2	RD
3	TD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
NC 9	RI



## Portfolio Serial Cable for IBM PC/XT

### PORTFOLIO DB9-S CONNECTOR

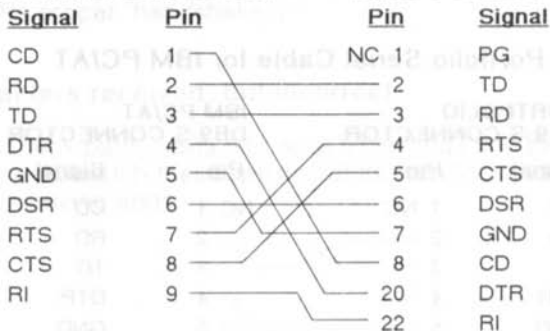
### IBM PC/XT DB25-S CONNECTOR



## Portfolio Serial Cable for Modem

### PORTFOLIO DB9-S 9-PIN D-TYPE FEMALE CONNECTOR

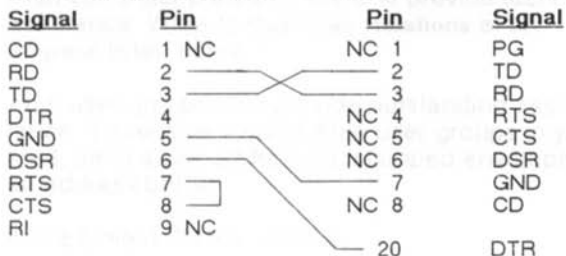
### MODEM DB25-P 25-PIN D-TYPE MALE CONNECTOR



## Portfolio Serial Cable for Typical Printer

**PORTFOLIO DB9-S  
9-PIN D-TYPE  
FEMALE CONNECTOR**

**PRINTER DB25-S  
25-PIN D-TYPE  
FEMALE CONNECTOR**





# Porting Serial Cable for Typical Printer

PORTFOLIO DSS 2		PRINTER DSS 2	
FEMALE CONNECTOR		FEMALE CONNECTOR	
Signal	Pin	Signal	Pin
RTS	1	RTS	1
CTS	2	CTS	2
TXD	3	TXD	3
RXD	4	RXD	4
TXD	5	TXD	5
RXD	6	RXD	6
TXD	7	TXD	7
RXD	8	RXD	8
TXD	9	TXD	9
RXD	10	RXD	10
TXD	11	TXD	11
RXD	12	RXD	12
TXD	13	TXD	13
RXD	14	RXD	14
TXD	15	TXD	15
RXD	16	RXD	16
TXD	17	TXD	17
RXD	18	RXD	18
TXD	19	TXD	19
RXD	20	RXD	20
TXD	21	TXD	21
RXD	22	RXD	22
TXD	23	TXD	23
RXD	24	RXD	24
TXD	25	TXD	25
RXD	26	RXD	26
TXD	27	TXD	27
RXD	28	RXD	28
TXD	29	TXD	29
RXD	30	RXD	30
TXD	31	TXD	31
RXD	32	RXD	32
TXD	33	TXD	33
RXD	34	RXD	34
TXD	35	TXD	35
RXD	36	RXD	36
TXD	37	TXD	37
RXD	38	RXD	38
TXD	39	TXD	39
RXD	40	RXD	40
TXD	41	TXD	41
RXD	42	RXD	42
TXD	43	TXD	43
RXD	44	RXD	44
TXD	45	TXD	45
RXD	46	RXD	46
TXD	47	TXD	47
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TXD	49	TXD	49
RXD	50	RXD	50
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TXD	53	TXD	53
RXD	54	RXD	54
TXD	55	TXD	55
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TXD	57	TXD	57
RXD	58	RXD	58
TXD	59	TXD	59
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TXD	89	TXD	89
RXD	90	RXD	90
TXD	91	TXD	91
RXD	92	RXD	92
TXD	93	TXD	93
RXD	94	RXD	94
TXD	95	TXD	95
RXD	96	RXD	96
TXD	97	TXD	97
RXD	98	RXD	98
TXD	99	TXD	99
RXD	100	RXD	100

## Porting Serial Cable for Typical Printer

PORTFOLIO DSS 2		PRINTER DSS 2	
FEMALE CONNECTOR		FEMALE CONNECTOR	
Signal	Pin	Signal	Pin
RTS	1	RTS	1
CTS	2	CTS	2
TXD	3	TXD	3
RXD	4	RXD	4
TXD	5	TXD	5
RXD	6	RXD	6
TXD	7	TXD	7
RXD	8	RXD	8
TXD	9	TXD	9
RXD	10	RXD	10
TXD	11	TXD	11
RXD	12	RXD	12
TXD	13	TXD	13
RXD	14	RXD	14
TXD	15	TXD	15
RXD	16	RXD	16
TXD	17	TXD	17
RXD	18	RXD	18
TXD	19	TXD	19
RXD	20	RXD	20
TXD	21	TXD	21
RXD	22	RXD	22
TXD	23	TXD	23
RXD	24	RXD	24
TXD	25	TXD	25
RXD	26	RXD	26
TXD	27	TXD	27
RXD	28	RXD	28
TXD	29	TXD	29
RXD	30	RXD	30
TXD	31	TXD	31
RXD	32	RXD	32
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RXD	34	RXD	34
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RXD	38	RXD	38
TXD	39	TXD	39
RXD	40	RXD	40
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RXD	42	RXD	42
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RXD	44	RXD	44
TXD	45	TXD	45
RXD	46	RXD	46
TXD	47	TXD	47
RXD	48	RXD	48
TXD	49	TXD	49
RXD	50	RXD	50
TXD	51	TXD	51
RXD	52	RXD	52
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TXD	65	TXD	65
RXD	66	RXD	66
TXD	67	TXD	67
RXD	68	RXD	68
TXD	69	TXD	69
RXD	70	RXD	70
TXD	71	TXD	71
RXD	72	RXD	72
TXD	73	TXD	73
RXD	74	RXD	74
TXD	75	TXD	75
RXD	76	RXD	76
TXD	77	TXD	77
RXD	78	RXD	78
TXD	79	TXD	79
RXD	80	RXD	80
TXD	81	TXD	81
RXD	82	RXD	82
TXD	83	TXD	83
RXD	84	RXD	84
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RXD	90	RXD	90
TXD	91	TXD	91
RXD	92	RXD	92
TXD	93	TXD	93
RXD	94	RXD	94
TXD	95	TXD	95
RXD	96	RXD	96
TXD	97	TXD	97
RXD	98	RXD	98
TXD	99	TXD	99
RXD	100	RXD	100

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Atari user groups also provide outstanding assistance. To receive a list of Atari user groups in your area, send a self-addressed, stamped envelope to an address below.

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Customer Relations  
Post Office Box 61657  
Sunnyvale, CA 94088

In Canada, write to:

Atari (Canada) Corp.  
90 Gough Road  
Markham, Ontario  
Canada L3R 5V5

In the United Kingdom, write to:

Atari Corp. (UK) Ltd.  
Post Office Box 555  
Slough  
Berkshire SL2 5BZ

Please add to the outside of the envelope: **User Group List** and the name of the state where you live, or **Technical Assistance**, or the subject of your letter.

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In the United Kingdom, write to:

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Barnet  
Herts. AL5 2ST

Please add to the outside of the envelope: Your Group Ltd and the name of the state where you live. Technical Assistance is the subject of your letter.