ImageWriter: Interface Specifications (8/94)

Article Reviewed/Updated: 31 August 1994

TOPIC ---

This article gives the interface specifications for the Apple Imagewriter
printer.

NOTE: This product is discontinued and is no longer available.

DISCUSSION --

1. Data Input Form:
     7-bit or 8-bit serial: 1 start bit
                            7 or 8 data bits
                            1 stop bit (no parity bit)

2. Data Input Codes:
     Characters: ASCII, 8- or 7- bit
     Graphics: 8-bit binary

3. Transmission Speed: 300, 1200, 2400, or 9600 baud

4. Input Buffer Size: 1K bytes

5. Printer Connector: DB-25 male, or equivalent

6. Mating Connector: DB-25S female, or equivalent

7. Printer Pin Out

     Pin No.   Symbol Description   Direction

         1   FG   Frame Ground
         2   SD   Send Data   Output
         3   RD   Receive Data   Input
         4   RTS   Request to Send   Output
         7   SG   Signal Ground
        14   FAULT   FaultOutput
        20   DTR   Data Terminal Ready Output

8. Signal Description

9. Frame Ground: Grounding line for circuit protection.

10. Send Data: Serial dot transmission line to the computer from the printer. False when no data is being sent; true when data is being sent.

11. Receive Data: Serial data transmission line to the printer from the computer. False when no data is being sent; true when data is being sent.

12. Request to Send: Output segnal from the printer; true when the printer is turned on.

13. Fault: Output signal from the printer. False when the printer is deselected; true when selected.

14. Data Terminal Ready: Output segnal from the printer. True whan the printer is on and able to receive data; false when unable to receive data.

15. Signal Levels:
     RD: Maximum +15 Volts, minimum +5 Volts.
     SD, RTS, DTR, and FAULT signal levels: Normal +7 Volts.

16. Protocol
    The printer is capable of two types of data protocol: XON/XOFF or Data Terminal Ready (DTR). The DTR protocol uses the DTR signal to indicate the printer state. The XON/XOFF protocol uses the serial ASCII codes for XON and XOFF.

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31 Aug 1994 - Removed "Discontinued" from title. Updated and reviewed.

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