Macintosh Portable: External Video Port Pinouts

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TOPIC ---

This article describes the external video port pinouts of the Macintosh Portable.

DISCUSSION ------------------------------------

The External Video Port drives video devices with a digital signal. It does not provide an analog signal used by a monitor.

Display Electronics

The display uses a digital signal to generate information, not an analog signal like a CRT. There are three signals generated in the video logic IC:

- the pixel synchronization signal; it marks the end of a byte.

- the horizontal synchronization signal; it marks the end of a 640 pixel line.

- the vertical synchronization signal; it marks the beginning of a new video frame.

The Macintosh Portable produces signals for an external video display through an 8-bit interface that is similar to the interface for the built-in display. A video adapter is required to convert the 8-bit data stream into a signal that can drive an external video device.

Connector: Density and 1/2 15-pin (same size as DB-9 with 15 pins)

PINOUTS

1 - FPDATA(0) Data bit 0
2 - FPDATA(1) Data bit 1
3 - +5 volts **
4 - FPDATA(2) Data bit 2

5 - FPDATA(3) Data bit 3
6 - FPDATA(4) Data bit 4
7 - GND Signal Ground
8 - +5 volts **
9 - GND Signal Ground
10 - FPDATA(5) Data bit 5
11 - FPDATA(6) Data bit 6
12 - FPDATA(7) Data bit 7
13 - BATT_VOLTAGE
14 - FLM from Video chip, Begin frame scan over
15 - CL2/ from Video chip, Byte clock

** Maximum current on 5 volt line is 50ma

Keywords: <None>

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