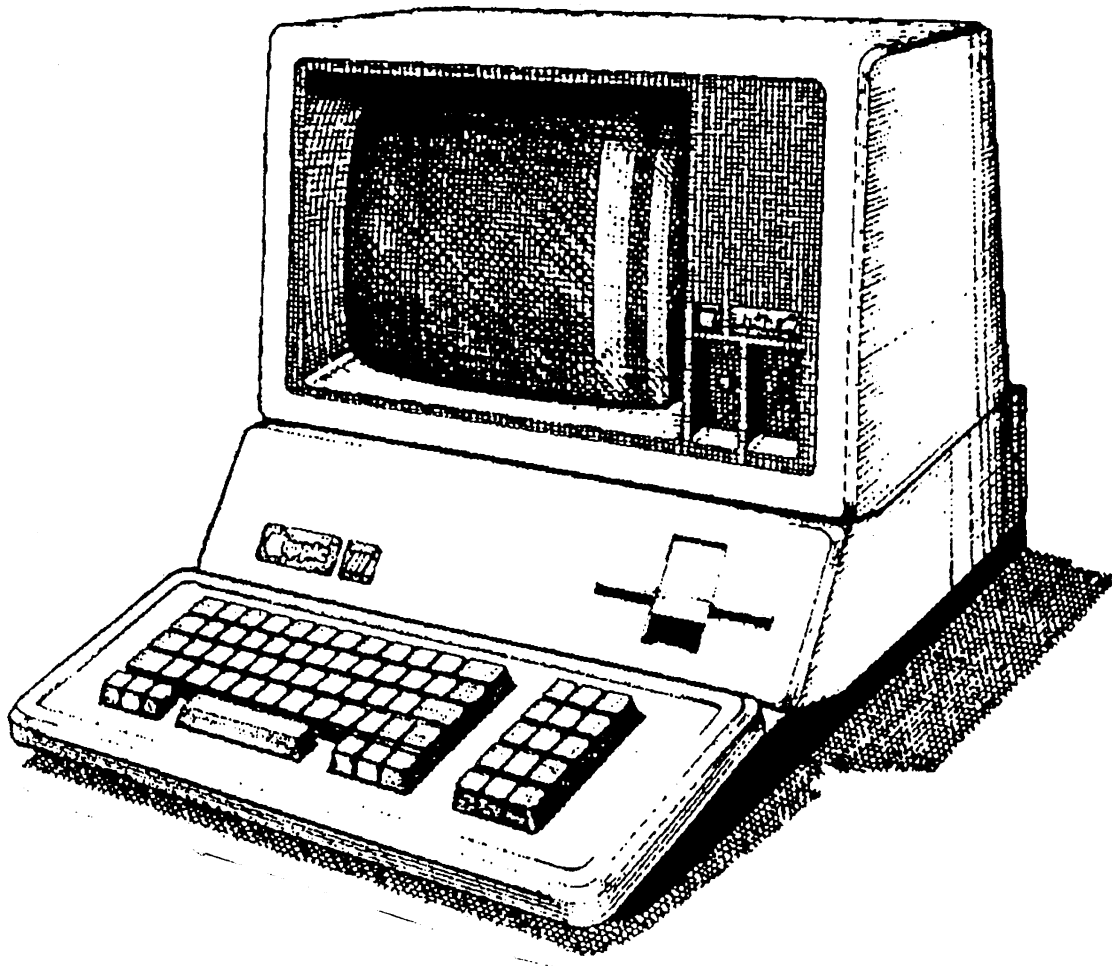




# Apple /// Computer Information



DOCUMENT NAME	#
SPECIFICATION: APPLE III UNIVERSAL PARALLEL INTERFACE CARD (UPIC)	March 1982 46

**Ex Libris David T. Craig**

# Apple III Universal Parallel Interface Card

Three Interface Cards in One

MAR 82

The Apple III Universal Parallel Interface (UPI) Card lets users attach a variety of parallel-mode printers—including most dot matrix models, plus some thermal and daisywheel units—to Apple III Computer Systems. Included with the card is a diskette containing an operating system driver, which lets you custom-configure the card to work with the printer you are using.

Because the UPI Card also emulates two Apple II interface cards—the Centronics Interface Card and the Parallel Printer Interface Card—it's able to control your printer directly from Apple III software, or from Apple II software running in emulation mode. And it spares you from having to juggle different cards for different jobs.

The Apple III UPI Card can also be used with equipment other than printers, functioning as a general purpose parallel input/output interface. Sixteen output lines (two groups of eight lines each) and eight input lines provide wide data paths for sending, receiving, and acknowledging data transfers. Other features of the card's general purpose function include: control signals with software-selectable priority; a programmable pulse-length strobe line; and software interrupt capabilities. A complete bi-directional, 8-bit parallel port software driver is also included for your convenience.

Because it's three cards in one, the Apple III Universal Parallel Interface Card gives you the convenience of printer plug-compatibility, the economy of Apple II printer emulation, and the flexibility of a full-featured parallel interface.

**Benefits**

**The Universal Parallel Interface Card...**

- increases system flexibility by permitting control of a wide range of dot matrix, thermal, and daisywheel printers...
- reduces system costs and hardware requirements by providing complete Apple II parallel printer emulation...
- broadens the Apple III's capabilities, because it can also be used as a powerful, general purpose parallel input/output port for a wide range of custom applications.

**System Configuration**

To use the Universal Parallel Interface Card, you will need:

- any Apple III system with an available expansion slot.

**Technical Specifications**

Parameter	Description
Data Lines:	16 output (24 mA at 0.5V) 8 input (1 LSTTL load)
Control Lines:	Data Ready Output Acknowledge Input Reset Data Ready Output Strobe Signal Ground Chassis Ground
Control Signal Polarity:	Software-setable
Signal Levels:	LSTTL
Strobe Length:	1-15µ sec in 2µ sec steps
Interrupts:	Software-controlled
Connector:	40-Pin Ribbon (Parallel), center-keyed—accepts 20-Pin Ribbon (Printer), center-keyed

**The Apple III Universal Parallel Interface Card Package**  
Order No. A3B0002

With your Apple III Universal Parallel Interface Card order, you will receive:

- Universal Parallel Interface Card;
- software driver diskette;
- instruction manual;