



# Tech Info Library

## IEEE-488 Interface Card: Product Description (11/96)

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Security: Everyone

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TOPIC -----

This article describes the Apple IEEE-488 Interface Card. This card has been discontinued and is no longer available from Apple.

DISCUSSION -----

Technical Specifications  
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As a Listener/Talker/Controller, the Apple IEEE-488 Interface card provides a fully compatible subset of the IEEE-488 standard. (Its only limitation is that it cannot pass control to another IEEE-488 controller.)

The interface card can also function as a device on the IEEE-488 bus. With a user-defined program, the card can be used to attach non-IEEE-488-compatible instruments to the bus.

General Purpose Instrument Bus Commands  
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WRITE	Write Data Out
WRITECNT	Write Data Out with Count
READ	Read Data In
READCNT	Read Data In with Count
XFER	Transfer Data
TRIGR	Group Execute Trigger
CLRAL	Clear All Devices
CLEAR	Clear Selected Devices
REMAI	Remote Enable All
LLKAL	Local Lockout All Devices
LOCAL	Local Mode All Devices
LOCDV	Local Mode Selected Devices

SRQD	Service Requested
SPOOL	Serial Poll
PPOLL	Parallel Poll
PPENB	Parallel Poll Enable
PPDIS	Parallel Poll Disable
PPDIS	Parallel Poll Disable
PPUAL	Parallel Poll Unconfigure All Devices
DEVICE	Controller Device Number
LINEFEED	Line Feed Control
EOS	End of String Character
SCREEN	Screen Control
ABORT	Clear All Interfaces
UNTALK	Universal Untalk

#### Device Capabilitie

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SH1, AH1, T3, L1, DC1, DT1, C1, C2, C3, C4, C25.

#### Operating Life

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To increase operating life, devices on the bus not in use should be turned off. However, proper operation of the bus requires some of the devices be turned on. The rule of thumb is the computer plus at least half of the devices connected to it must be powered on.

#### Software

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The following software is supported by on-board, ROM-based firmware and signal protocol on the bus is handled by the resident software.

1. BASIC
2. Assembly macro commands
3. Pascal and FORTRAN through assembly language routines

#### Maximum Devices

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Per card: 14

#### Maximum cards

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Per computer: 7

#### Package

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Apple IEEE-488 Interface Card terminates in standard IEEE-488 socket.

Back-panel bracket connects to Apple case ground (for low RFI systems)

Instruction manual includes GPIB connections, listener addresses, talker addresses, secondary addresses, and control codes.

#### System Configuration

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Apple II or Apple II Plus with a minimum of 32K RAM and available expansion slot.

Apple IIe system with an available expansion slot.

#### Article Change History:

14 Nov 1996 - Reviewed for technical accuracy, revised formatting.

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