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

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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-4888 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

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
REMAL   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

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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
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Device Capabilitie

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

Operating Life

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

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

Per card: 14

Maximum cards

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.

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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.


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