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## Apple II Memory Expansion Cards: Decription (11/96)

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Security: Everyone

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TOPIC -----

This article describes Apple's three Apple II Memory Expansion Cards.

DISCUSSION -----

### Overview

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An Apple Memory Expansion Card adds up to one megabyte (1MB) RAM to any Apple II personal computer, allowing it to run more sophisticated applications and to create larger files. On the Apple IIGS personal computer, memory expansion lets you run high-performance programs that take full advantage of the computer's sound and graphics capabilities.

Three cards are available:

- Apple IIGS Memory Expansion Card
- Apple IIc Memory Expansion Card (for Apple IIc only, not Apple IIc Plus)
- Apple II Memory Expansion Card (for Apple IIe, Apple II Plus, and Apple II computers)

These cards are compatible with three operating systems: ProDOS, DOS 3.3, and Pascal 1.3. (Earlier versions of Pascal can be upgraded to version 1.3.) DOS 3.3 programs cannot be booted from the Memory Expansion Card.

Environmental requirements are the same for all three cards:

- ambient temperature: 50 to 104 degrees F (10 to 40 degrees C)
- relative humidity: 0% to 95% (non condensing)

Voltage is the same for all three cards: 4.75 to 5.25 volts DC

Apple IIGS Memory Expansion Card

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This card is used with an Apple IIGS personal computer with a monitor and disk drive.

Power Consumption:

- operating: 200 milliamps in 256K configurations  
600 milliamps in 1MB configuration
  
- standby: 140 milliamps in 256K configuration  
370 milliamps in 1MB configuration

Apple IIc Memory Expansion Card/Kit  
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The Apple IIc Memory Expansion Card is used with an Apple IIc personal computer (model number A2S4100).

The Apple IIc Memory Expansion Kit is used with an Apple IIc personal computer (model number A2S4000).

Power Consumption:

- operating: 100 milliamps in 256K configurations  
200 milliamps in 1MB configuration
  
- standby: 90 milliamps in 256K configuration  
180 milliamps in 1MB configuration

Apple II Memory Expansion Card  
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The Apple II Memory Expansion Card is used with an Apple IIe personal computer (preferably enhanced) that has a monitor and disk drive, or with an Apple II Plus or Apple II personal computer with a monitor and disk drive.

Power Consumption:

- operating: 100 milliamps in 256K configurations  
200 milliamps in 1MB configuration
  
- standby: 50 milliamps in 256K configuration  
150 milliamps in 1MB configuration

Apple II Memory Expansion Card Technical Reference  
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The Memory expansion card looks like, operates as, and is accessed exactly the same way as an Apple Protocol Converter device.

There are only two ways to access the card:

- as an Apple Protocol Converter device
- as a RAM disk.

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Through the protocol converter, you can access all the memory on the card at any time.

## Article Change History:

15 Nov 1996 - Revised formatting.

30 Aug 1994 - Reviewed for technical accuracy.

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