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Macintosh LC: Expansion Slot

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TOPIC -----

This article is about the Macintosh LC's PDS (processor-direct slot) expansion slot.

DISCUSSION -----

You can expand the Macintosh LC via a 96-pin expansion connector located on the main logic board. This is Apple's first 68020 PDS, requiring a new slot definition. Expansion cards will be approximately 3-inches by 7-inches in size and will lie horizontally above the logic board within the Macintosh LC. An opening in the back of the Macintosh LC accommodates a connector the size of a DB-15. The expansion connector is supplied with the following voltages, and must be limited to the following current load:

Voltage	Current
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+5	800 mA
-5	20 mA
+12	200 mA

Power limitations allow dissipation of no more than 4 watts, all of which can be taken from +5, or from any combination of the three voltages -- but the total cannot exceed 4 watts.

Here are the pinouts for the Macintosh LC PDS connector for columns A, B, and C:

- A1 - Sound
- A2 - /SLOTIRQ
- A3 - /AS

A4 - /DSACK1
A5 - /HALT 68020 Halt
A6 - FC2
A7 - FC0
A8 - /RMC
A9 - D31 Data bit 31
A10 - D28 Data bit 28
A11 - D25 Data bit 25
A12 - D22 Data bit 22
A13 - D19 Data bit 19
A14 - D16 Data bit 16
A15 - D13 Data bit 13
A16 - D10 Data bit 10
A17 - /BGACK
A18 - A1 address bit 1
A19 - A26 address bit 26
A20 - A23 address bit 23
A21 - A20 address bit 20
A22 - /
A23 - D2 Data bit 2
A24 - D1 Data bit 1
A25 - A4 address bit 4
A26 - A6 address bit 6
A27 - A11 address bit 11
A28 - A9 address bit 9
A29 - A16 address bit 16
A30 - A18 address bit 18
A31 - FAN
A32 - +12V

B1 - Analog Ground
B2 - R/W
B3 - +5V
B4 - +5V
B5 - SIZ1
B6 - Ground
B7 - C16M
B8 - Ground
B9 - D30 Data bit 30
B10 - D27 Data bit 27
B11 - D24 Data bit 24
B12 - D21 Data bit 21
B13 - D18 Data bit 18
B14 - D15 Data bit 15
B15 - D12 Data bit 12
B16 - D9 Data bit 9
B17 - /BR
B18 - A31 address bit 31
B19 - A25 address bit 25
B20 - A22 address bit 22
B21 - /IPL2
B22 - D3 Data bit 3
B23 - D5 Data bit 5

B24 - D0 Data bit 0
B25 - A2 address bit 2
B26 - A12 address bit 12
B27 - A13 address bit 13
B28 - A8 address bit 8
B29 - A15 address bit 15
B30 - A17 address bit 17
B31 - A// Clock
B32 - Ground

C1 - /FPU
C2 - /DS
C3 - /BERR
C4 - /DSACK0
C5 - SIZ0
C6 - FC1
C7 - /RESET
C8 - /BG
C9 - D29 Data bit 29
C10 - D26 Data bit 26
C11 - D23 Data bit 23
C12 - D20 Data bit 20
C13 - D17 Data bit 17
C14 - D14 Data bit 14
C15 - D11 Data bit 11
C16 - D8 Data bit 8
C17 - A0 address bit 0
C18 - A27 address bit 27
C19 - A24 address bit 24
C20 - A21 address bit 21
C21 - /IPL1
C22 - D4 Data bit 4
C23 - D6 Data bit 6
C24 - D7 Data bit 7
C25 - A3 address bit 3
C26 - A5 address bit 5
C27 - A7 address bit 7
C28 - A10 address bit 10
C29 - A14 address bit 14
C30 - A19 address bit 19
C31 - FC3
C32 - -5V

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