

**ATX Power Connector**

Engineers Note:  
Board should work with a Pico ATX PSU, to make it a "double Pico" design. Any other ATX power supply should be fine though.

**-5v Regulator (optional)**

Engineers Note:  
-5v Regulator is entirely optional. Only present if you want to drive an SE Board. -5v is usually missed on modern ATX PSUs, so we'll regulate it here!

**Onboard Power LED**

Engineers Note:  
LED added to ensure PSU is powered up. Also an option to add an external LED if needed.

**RTC Battery**

Engineers Note:  
Diodes and optional Header for 4.5V Battery Pack to power the RTC

**Macintosh Connector**

Engineers Note:  
Pinout Same as 128S12P+Plus, with -5V and -12V pads provided for additional Boards (E.G. SDN Replacement) Pin 2 is the key and can be stripped out.

**ATX Power Switch**

Engineers Note:  
On board side Power Switch, with the option for an off board toggle switch as well.

**Composite Video**

Engineers Note:  
Composite video connector is entirely optional, but has been retained in case it's desired. Ensure a jumper is fitted to CN4.

**VGA Connector**

Engineers Note:  
It's a VGA port. What else do you want from me?

**Raspberry Pi Pico Header**

Engineers Note:  
VGA DAC, as based off the design as found in the "Hardware design with RP2040". DACs retained to allow for compatibility with the optional composite output.

**Resistor Ladder DAC**

Engineers Note:  
This board is designed to be compatible with the 128S12P+Plus. However, it should also work with the SE and SE/30. Would not surprise me if it works with a Classic and Classic II as well.

**Video Input Pulldowns**

Engineers Note:  
Pull downs on the Mac Video Lines to form potential dividers, just in case they're needed, otherwise DNF.

**Macintosh Connector**

Engineers Note:  
Pico Header and Pinout, again taken from the reference material. 22R inline resistors for some protection. Found that the video output from a plus board is only about 3-4v, within tolerance of a standard Pico DAC. R22, R23, R24 are present but DNF, in case they are needed (i.e., with an SE board)

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