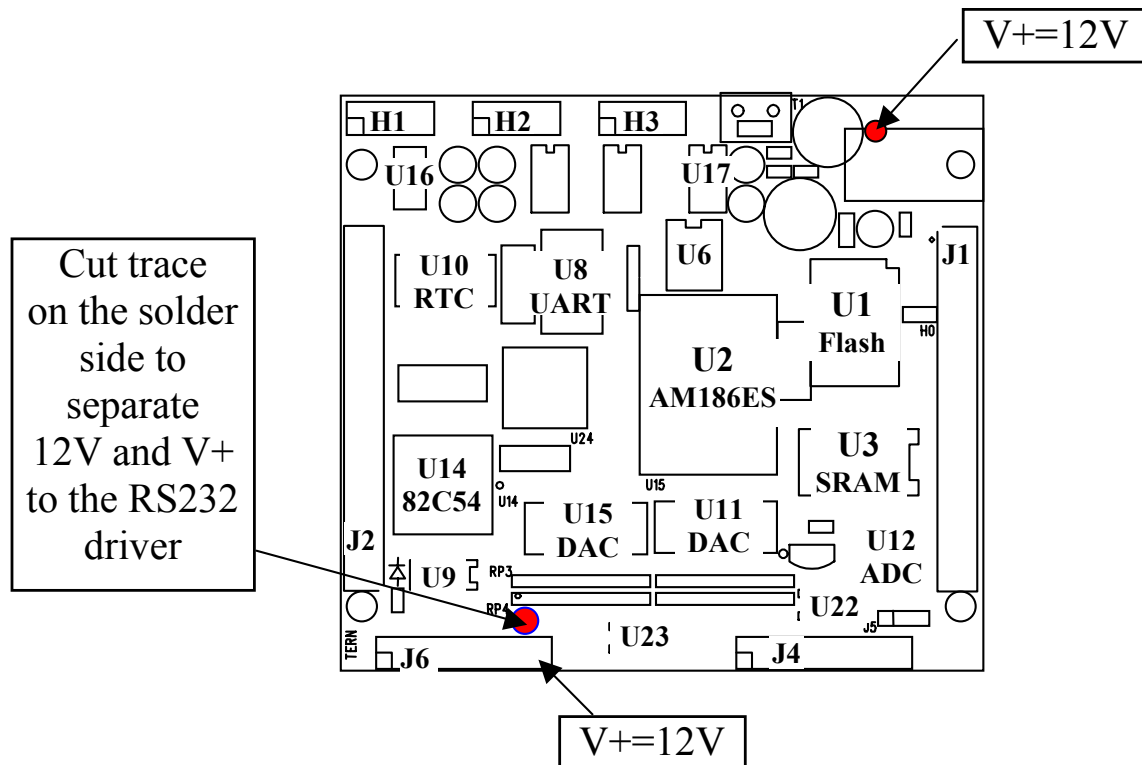


A-Engine86-D Modification for DAC 0-10V analog outputs Gain=4



As default, the eight channels of DAC7625 are buffered by on-board amplifier with Gain=2, outputting 0-5V.

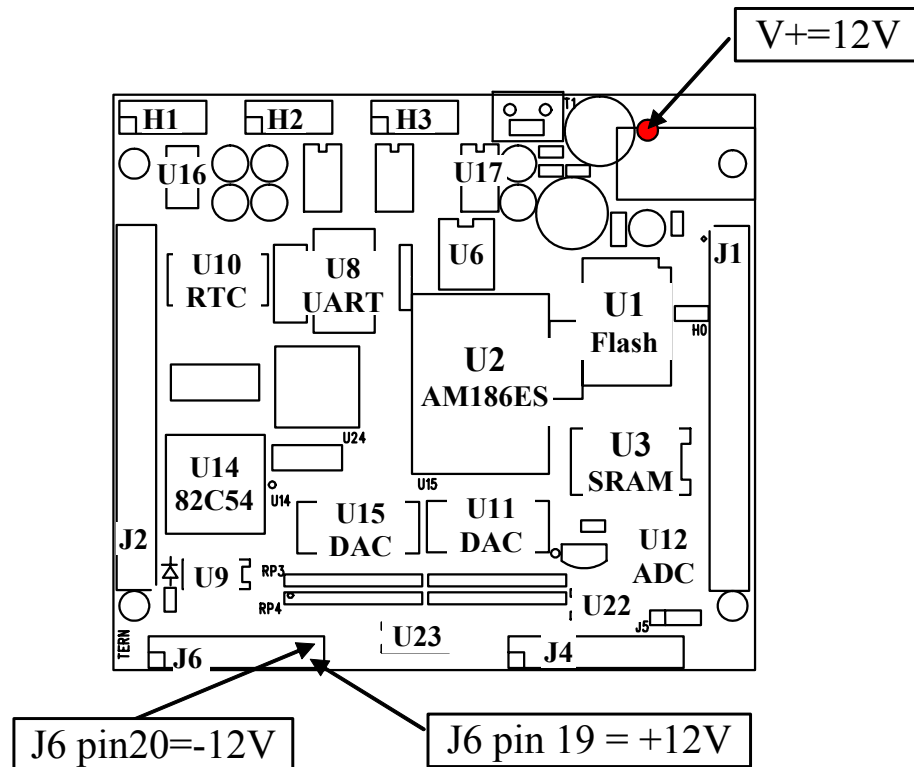
The amplifiers are powered by V+, generated from the RS232 drivers.

In order to output 0-10V for the DAC, the amplifiers on-board must be powered by 12V.

Modifications:

- 1) Change Gain=4. RP1=RP3=4.99K, RP2=RP4=20K.
- 2) Cut trace on the solder side to separate the RS232 V+ from J6 pin 19.
- 3) Add wire from Diode input = 12V to J6 pin 19.

A-Engine86-D Modification for DAC -10V to +10V analog outputs Gain=8



As default, the eight channels of DAC7625 are buffered by on-board amplifier with Gain=2, outputting 0-5V.

The amplifiers are powered by $V+ = +8V$ and $V- = -8V$, generated from the on-board RS232 drivers.

In order to output $\pm 10V$ for the DAC, the amplifiers on-board must be powered by $\pm 12V$.

Modifications:

- 1) Change Gain=8. $RP1=RP3=2K$, $RP2=RP4=16.2K$.
 - 2) Supply external -12V(max. -14V) to J6 pin 20.
 - 3) Add wire from Diode input = 12V(max. +14V) to J6 pin 19.
- The Max. DC power voltage to AE86D must be less than +14V.