

Doc No.: TN20-87
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Subject: Analog Input Differences

Application Note

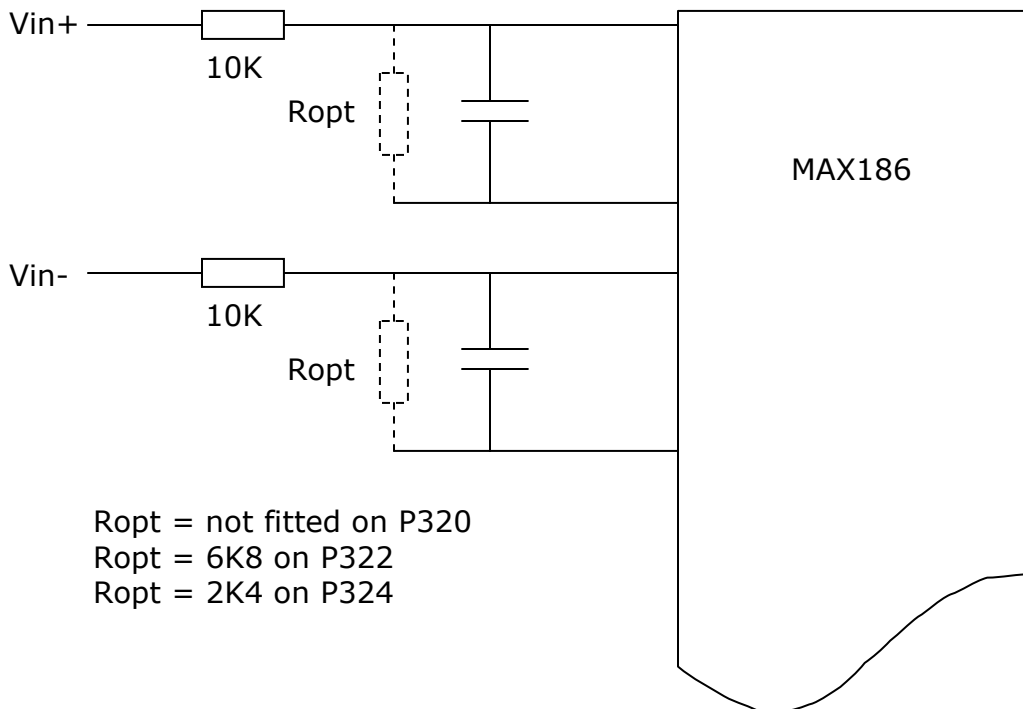
Introduction:

Trio Motion Technology's medium level product, the MC206, has a single analog input built in. The older MC2 had an option for four differential analog inputs.

There are a number of differences which must be considered when migrating from one product to another.

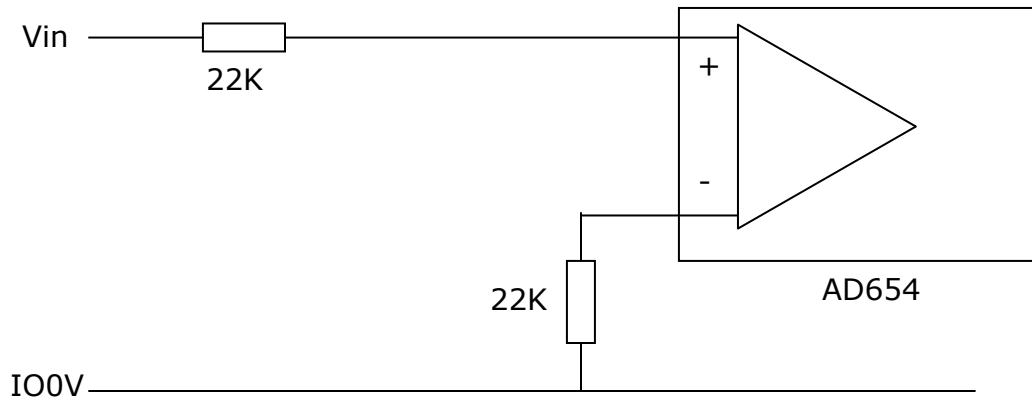
MC2 Analog Input Option (P320/P322/P324):

The standard option is the P320 with a +/-2V or 0-4V input range. The P322 allowed a 0-10V input range and the P324 a +/-10V input range. The MC2 Analog Input Option is a soldered in board, fitted at the time of ordering. It is powered from an isolated, internal supply in the MC2.



MC206 Analog Input:

The analog input on the MC206 has a 0-10V input range. It is a single ended input referenced to the IO0V. Power is taken from the IO24V which is isolated from the internal supply in the MC206, if a separate supply is used for IO24V to that used for the main power input.



CAN Analog Input (P325):

The CAN Analog Input module uses a similar circuit to the P324. The 10K resistor is the same but $R_{opt}=2K55$. It is used in single ended input mode referenced to an isolated supply, generated inside the P325.

