

SYSTEM LEVEL DAISY CHAIN EXAMPLE

The diagram illustrates a system-level daisy chain for SF OPTO inputs. It shows a main TEC drive module connected to four remote boards via a daisy chain of SF OPTO_INPUT and SF OPTO_OUT signals. Each remote board contains a 74VHC125 octal monostable multivibrator. The diagram includes labels for power supply rails (+3.3V, +5V, GND), signal lines, and component values (resistors, capacitors).

Example of signal AD formed out to four remote boards

Cable between main board and remote board(s)

Main TEC drive module

SF OPTO_OUT

SF OPTO_INPUT via GPIO BRD

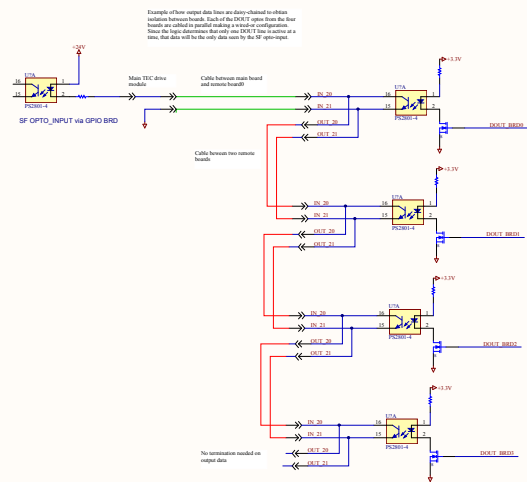
Cable between main board and remote board(s)

Cable between two remote boards

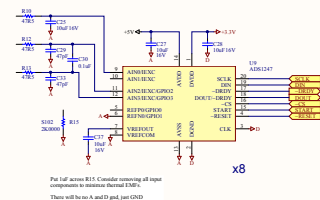
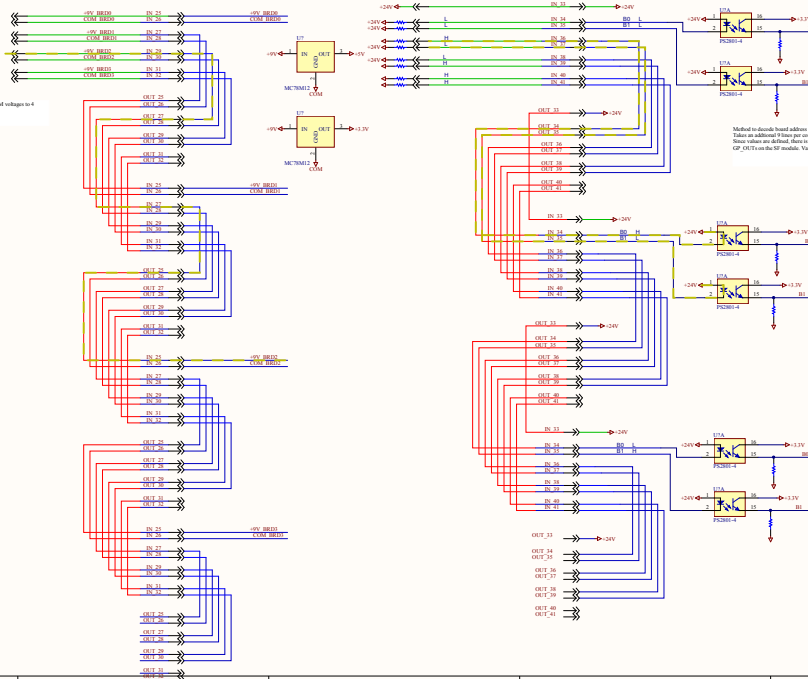
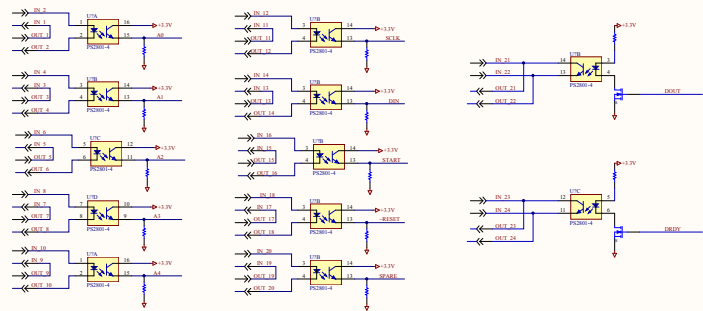
Termination board or connector

Example of how output data lines are daisy-chained to obtain isolation between boards. Each of the DOUT₀ outputs from the four boards are collected by parallel routing to a single configuration output line. In this example, the output data line is labeled DOUT₀. Note that data will be the only data seen by the SF opto-signal.

No termination needed on output data



BOARD LEVEL I/O IMPLEMENTATION



There will be no A and D and, just GN2

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