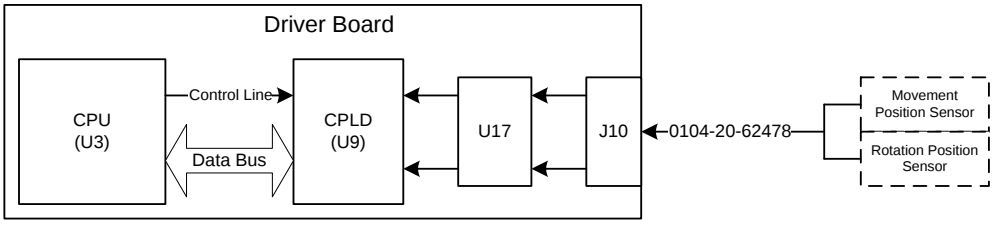
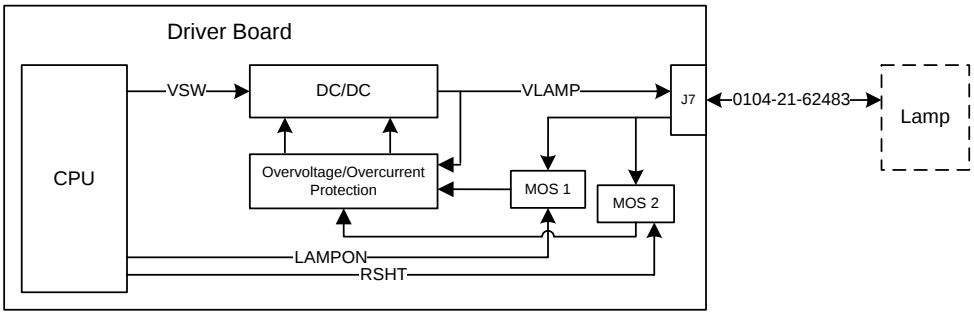
4.3.3 Position Signal Detection



The movement position signal and the rotation position signal are transmitted through the U17 shaping circuit and the CPLD to the CPU.

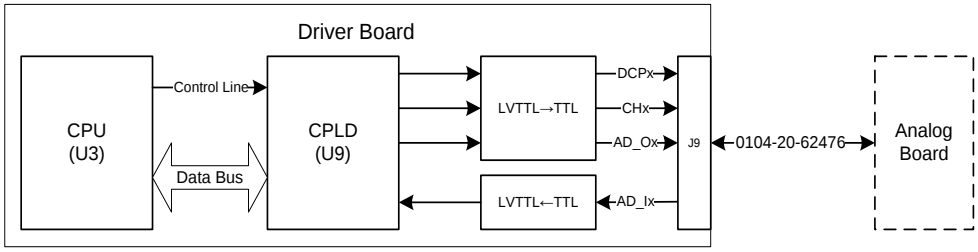
4.3.4 Lamp Control



The lamp needs +6V when working and +2V on standby. The voltage is provided by the DC/DC unit, which is controlled by the VSW signal from the CPU and sends VLAMP signal to the lamp. The VLAMP signal also feeds to the overvoltage/overcurrent protection unit, which controls the DC/DC unit to stop power supply to the lamp when overvoltage or overcurrent occurs.

The MOS 1 and MOS 2, which are controlled by LAMPON and RSHT signals respectively, protect the lamp from being damaged by spike pulse during the switch.

4.3.5 Analog Board Control



There are three groups of signals to control the analog board: digital potentiometer control signal DCPx, channel gating signal CHx, and AD collection control signals AD_Ox and AD_Ix. All signals are generated from CPLD and processed by level translators.