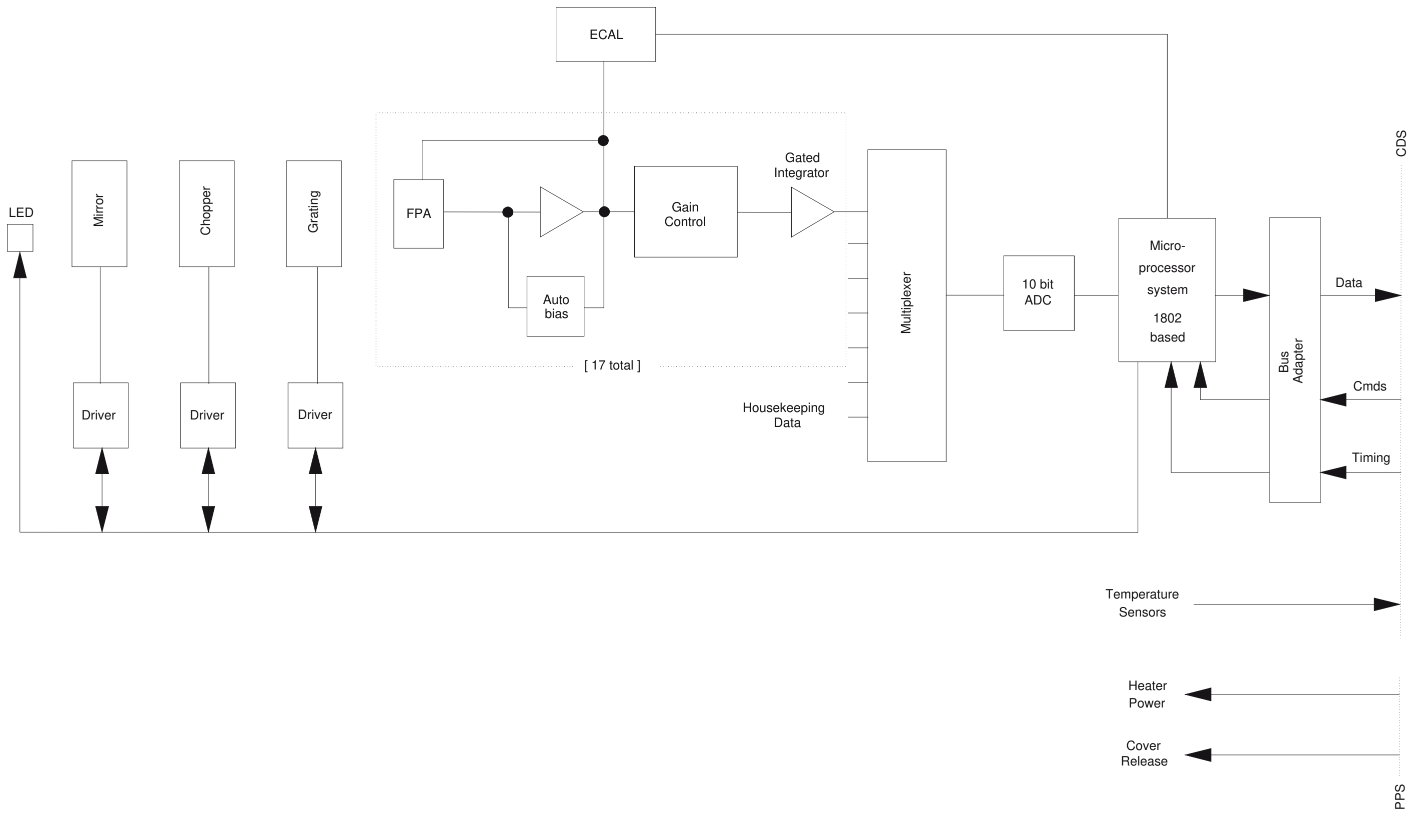

Fig. 7. Electronics Block Diagram.

The instrument is controlled by an 1802 microprocesser which communicates with the spacecraft Command and Data Subsystem (CDS) through a bus adaptor. The microprocesser controls the mirror, grating, and chopper mechanisms, the timing of the signal chains, and calibration and housekeeping measurements. There are individual signal chains for each detector, and their outputs are sampled with an analog multiplexer and digitized to 10 bit precision. There are six temperatures monitored within the instrument (telescope, chopper, spectrometer, radiator shield, focal plane, and electronics). These measurements are obtained directly by the CDS. Heater and cover release functions are performed by commandable functions in the Power and Pyrotechnic Subsystems (PPS).