Auxiliary PLD U2:
- Common serial lines: SDL, SDO, SCLK.
- DAC_CS[0:8]: Chip Select for the voltage DACs
- ADC_CS[0:16]: Chip Select for the telemetry ADCs
- MUXE[0:3] and MUXA[0:3] and MUXB[0:3]: control lines for the clock signals multiplexers
- Output enable lines.
connections to V0 pins on J1 and J2 need additional consideration so as not to short the +3.3 and +5 together sometime in the future.

P1 and P2 provide +5V and +3.3V digital
and some +/-12V

P3 provides +5V analog
+/-15V analog
+/- some high voltage, say 40V analog grid HV grid