Sheet: Power PWR\_CHO\_PWR\_CHO PWR\_CHO\_EN CHO\_EN PWR\_CHO\_CURR\_OVLD CHO\_CURR\_SENSE PWR\_CHO\_CURR\_SENSE Sheet: MCU PWR\_CH1 CPWR\_CH1
PWR\_CH1\_EN CPWR\_CH1\_EN
PWR\_CH1\_CURR\_OVLD CPWR\_CH1\_OVLD
PWR\_CH1\_CURR\_SENSE PWR\_CH0\_OVLD
PWR\_CH1\_OVLD
PWR\_CH1\_CURR\_OVLD PWR\_CH2\_OVLD
PWR\_CH3\_OVLD
PWR\_CH3\_CURR\_OVLD
PWR\_CH4\_OVLD
PWR\_CH5\_CURR\_OVLD
PWR\_CH5\_CURR\_OVLD PWR\_FLAG VCC PWR\_CH2 CPWR\_CH2
PWR\_CH2\_EN CPWR\_CH2\_EN
PWR\_CH2\_CURR\_OVLD CPWR\_CH2\_CURR\_SENSE ↑Conn\_02x04\_Top\_Bottom CANHO 2 6 CANLO CANHI 3 7 CANLI GND RESERVEDO 4 8 RESERVEDI ADS1247\_SCLK
ADS1247\_DOUT
ADS1247\_DIN
ADS1247\_DIN
ADS1247\_CS
ADS1247\_DRDY
ADS1247\_TORDY
ADS1247\_CHSEL\_S0
ADS1247\_CHSEL\_S1
ADS1247\_CHSEL\_S1 PWR\_CH3\_CPWR\_CH3\_EN
PWR\_CH3\_EN CPWR\_CH3\_EN
PWR\_CH3\_CURR\_OVLD
PWR\_CH3\_CURR\_SENSC
PWR\_CH3\_CURR\_SENSE Daisy chain together multiple boards using these connectors PWR\_CH4 PWR\_CH4 PWR\_CH4\_EN PWR\_CH4\_EN PWR\_CH4\_CURR\_OVLD PWR\_CH4\_CURR\_SENSE PWR\_CH4\_CURR\_SENS Conn\_02x04\_Top\_Bottom CANHO 2 6 CANLO CANHI 3 7 CANLI GND RESERVEDO 4 8 RESERVEDI CANH1 CANL1 CANL1 HE\_CH0 HE\_CH0
HE\_CH1 HE\_CH1
HE\_CH2 HE\_CH2 PWR\_CH5 CPWR\_CH5
PWR\_CH5\_EN CPWR\_CH5\_EN
PWR\_CH5\_CURR\_OVLD
PWR\_CH5\_CURR\_SENSC
PWR\_CH5\_CURR\_SENSE PWR\_CHO\_EN PWR\_CH1\_EN PWR\_CH1\_EN VCC\_SENSC VCC\_CURR\_SENSE PWR\_CH3\_EN\_PWR\_CH1\_EN PWR\_CH3\_EN\_PWR\_CH3\_EN PWR\_CH4\_EN\_PWR\_CH4\_EN PWR\_CH4\_EN\_PWR\_CH4\_EN +3V3 PWR\_CH0\_CURR\_SENSE PWR\_CH1\_CURR\_SENSE PWR\_CH1\_CURR\_SENSE PWR\_CH2\_CURR\_SENSE PWR\_CH3\_CURR\_SENSE PWR\_CH3\_CURR\_SENSE PWR\_CH4\_CURR\_SENSE PWR\_CH5\_CURR\_SENSE PWR\_CH5\_CURR\_SENSE PWR\_CH5\_CURR\_SENSE File: Power.sch ADS1247\_SCLK (ADS1247\_SCLK ADS1247\_DOUT ADS1247\_DOUT ADS1247\_DIN ADS1247\_DIN ADS1247\_CS ADS1247\_CS ADS1247\_CS ADS1247\_START ADS1247\_CHSEL\_SO ADS1247\_CHSEL\_S1 ADS1247\_CHSEL\_S1 Sheet: Sensors RESET VCC\_SENSE VCC\_CURR\_SENSE VCC\_CURR\_SENSE SW Push | SW1 o 3.3nF File: MCU.sch PWR\_CHO\_PTC PWR\_CH1\_PTC PWR\_CH1\_PTC PWR\_CH2\_PTC PWR\_CH3\_PTC PWR\_CH3\_HEC PWR\_CH4\_HEC PWR\_CH5\_HEC GND Schematic Design: David Knight Layout Design: Chris Johnson HE\_CHOCHE\_CHO HE\_CH1CHE\_CH1 HE\_CH2CH2 SDSU Rocket Project Sheet: / File: Extention Boards.sch File: Sensors.sch Title: HELIX Extension Board Size: A4 Date: 2019-11-04 Rev: A KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1 ld: 1/9















