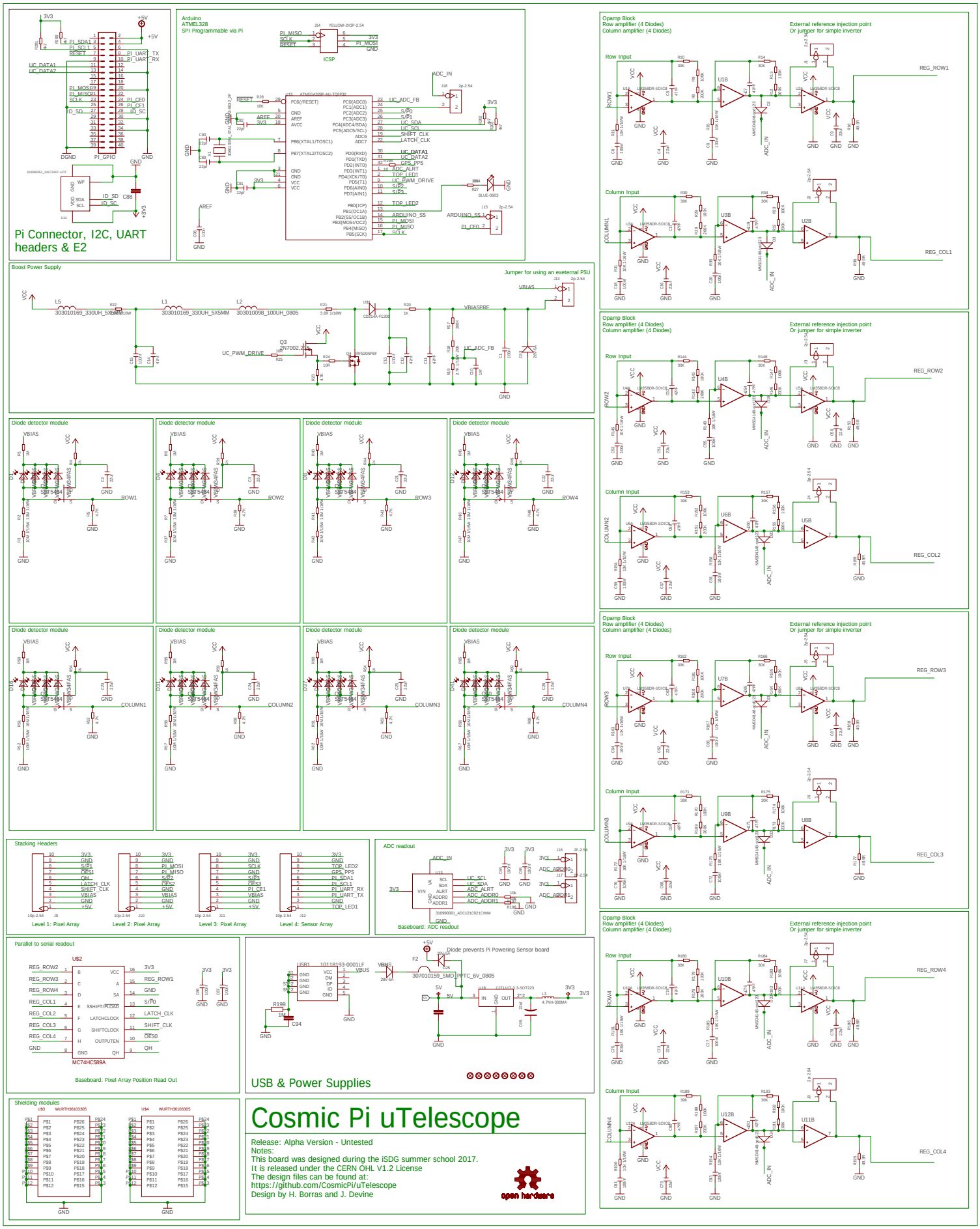
Pi Connector, I2C, UART headers & E2
Arduino ATMEL328 SP1 Programmable via Pi
ICSP
Boost Power Supply
Jumper for using an exeternal PSU
Diode detector module
Opamp Block Row amplifier (4 Diodes) Column amplifier (4 Diodes)
External reference injection point Or jumper for simple inverter
Row Input
Column Input
REG_ROW1
REG_COL1
REG_ROW2
REG_COL2
REG_ROW3
REG_COL3
REG_ROW4
REG_COL4
Stacking Headers
Level 1: Pixel Array
Level 2: Pixel Array
Level 3: Pixel Array
Level 4: Sensor Array
ADC readout
Baseboard: ADC readout
Parallel to serial readout
Baseboard: Pixel Array Position Read Out
Diode prevents Pi Powering Sensor board
USB & Power Supplies
Shielding modules
Cosmic Pi uTelescope
Release: Alpha Version - Untested
Notes:
This board was designed during the iSDG summer school 2017.
It is released under the CERN OHL V1.2 License
The design files can be found at:
https://github.com/CosmicPi/uTelescope
Design by H. Borras and J. Devine
open hardware