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Revision Notes/Changelog

Revision A:

-Diode mod required to power over USB

Revision B:

- -Add diodes to enable power from USB
- -Connect ESP reset and boot select pins to ARM for auto-programming
- -Connect ESP TX1 pin to ARM for LED control
- -Move I2C_SDA to ESP pin 12
- -Connect accelerometer interrupt pin to ESP pin 13
- -Remove ground planes under ESP8266 antenna area
- -Add jumper pad for entering boot mode on ARM processor
- -Hook LED_OE or similar to the row driver MUX
- -Bring unused ESP pins to pads
- -Add TS silkscreen

Revision C:

- -Switch to ICN2012 high side driver
- -Switch to QMA6981 accelerometer
- -Change cap values for 3.3V linear regulator

TODO

- -Implement more user friendly expansion pads for the ESP
- -Cosmetic: ESP8266 GPIO 18mislabeled, should be 16
- -With LED_HS_EN, should LED_OE still be connected to the mux?
- -Characterize the power situation
- -Test a flush-mount USB connector
- -Add 5v test pad?
- -Remove pullup resistor on button?
- -Switch 10K to 47K pullups?
- -Drop JTAJ connector and replace with test points
- -Can the ICN2012 work with 3.3v IO?

eightbyeight-ICN201 7/5/16 1:35 PM

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