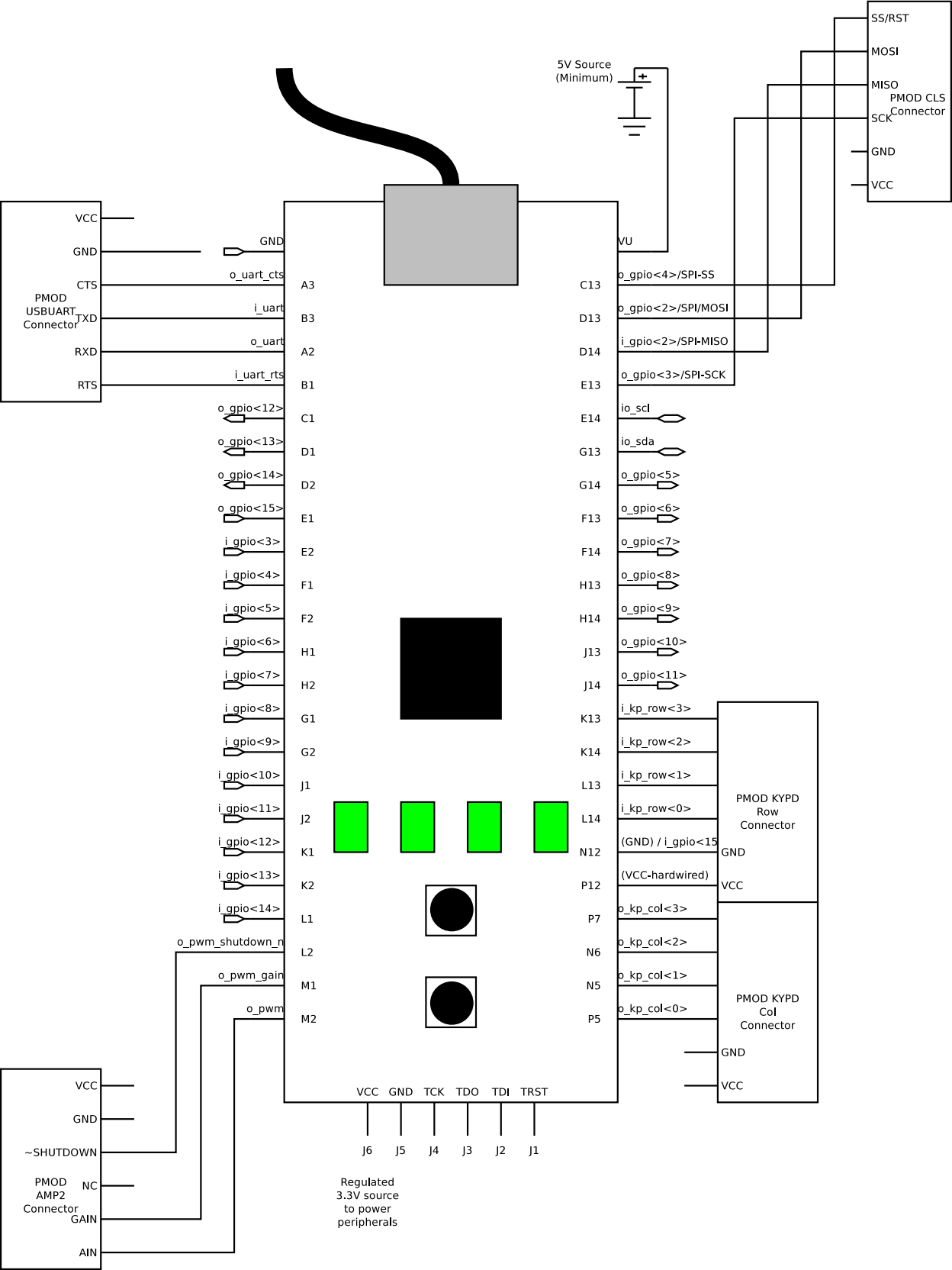
5V Source
(Minimum)
SS/RST
MOSI
MISO
SCK
GND
VCC
PMOD CLS
Connector
VCC
GND
CTS
TXD
RXD
RTS
PMOD
USBUART
Connector
GND
o_uart_cts
i_uart
o_uart
i_uart_rts
A3
B3
A2
B1
VU
C13
D13
D14
E13
o_gpio<4>/SPI-SS
o_gpio<2>/SPI/MOSI
i_gpio<2>/SPI-MISO
o_gpio<3>/SPI-SCK
o_gpio<12>
o_gpio<13>
o_gpio<14>
o_gpio<15>
i_gpio<3>
i_gpio<4>
i_gpio<5>
i_gpio<6>
i_gpio<7>
i_gpio<8>
i_gpio<9>
i_gpio<10>
i_gpio<11>
i_gpio<12>
i_gpio<13>
i_gpio<14>
C1
D1
D2
E1
E2
F1
F2
H1
H2
G1
G2
J1
J2
K1
K2
L1
L2
M1
M2
E14
G13
G14
F13
F14
H13
H14
J13
J14
K13
K14
L13
L14
N12
P12
P7
N6
N5
P5
io_scl
io_sda
o_gpio<5>
o_gpio<6>
o_gpio<7>
o_gpio<8>
o_gpio<9>
o_gpio<10>
o_gpio<11>
i_kp_row<3>
i_kp_row<2>
i_kp_row<1>
i_kp_row<0>
(GND) / i_gpio<15>
(VCC-hardwired)
o_kp_col<3>
o_kp_col<2>
o_kp_col<1>
o_kp_col<0>
PMOD KYPD
Row
Connector
GND
VCC
PMOD KYPD
Col
Connector
GND
VCC
o_pwm_shutdown_n
o_pwm_gain
o_pwm
VCC
GND
~SHUTDOWN
NC
GAIN
AIN
PMOD
AMP2
Connector
VCC
GND
TCK
TDO
TDI
TRST
J6
J5
J4
J3
J2
J1
Regulated
3.3V source
to power
peripherals