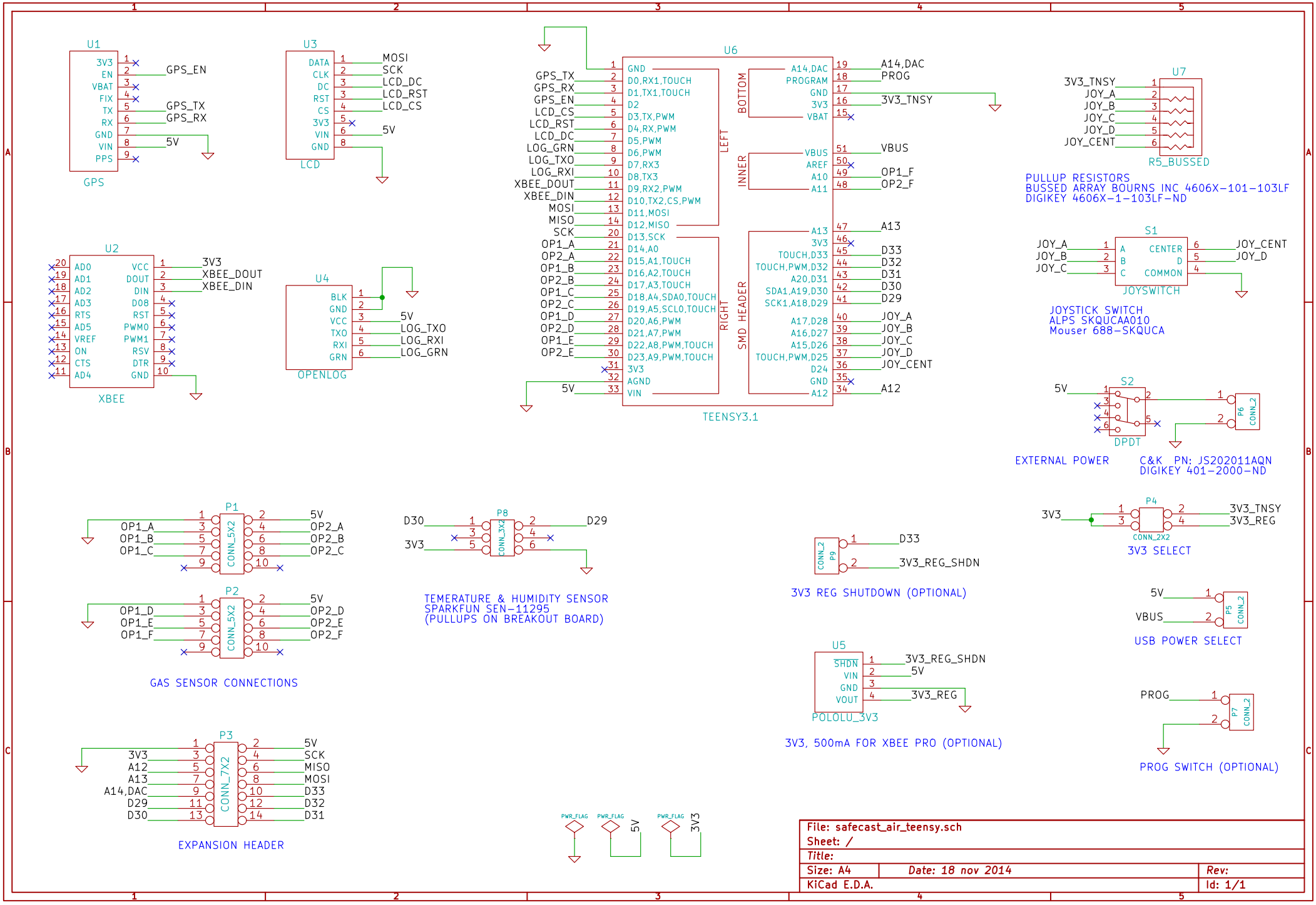
U1
3V3
EN
VBAT
FIX
TX
RX
GND
VIN
PPS
GPS_EN
GPS_TX
GPS_RX
5V
GPS
U3
DATA
CLK
DC
RST
CS
3V3
VIN
GND
MOSI
SCK
LCD_DC
LCD_RST
LCD_CS
5V
LCD
U6
GND
D0,RX1,TOUCH
D1,TX1,TOUCH
D2
D3,TX,PWM
D4,RX,PWM
D5,PWM
D6,PWM
D7,RX3
D8,TX3
D9,RX2,PWM
D10,TX2,CS,PWM
D11,MOSI
D12,MISO
D13,SCK
D14,A0
D15,A1,TOUCH
D16,A2,TOUCH
D17,A3,TOUCH
D18,A4,SDA0,TOUCH
D19,A5,SCL0,TOUCH
D20,A6,PWM
D21,A7,PWM
D22,A8,PWM,TOUCH
D23,A9,PWM,TOUCH
3V3
AGND
VIN
LEFT
RIGHT
BOTTOM
INNER
SMD HEADER
A14,DAC
PROGRAM
GND
3V3
VBAT
VBUS
AREF
A10
A11
A13
3V3
TOUCH,D33
TOUCH,PWM,D32
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SDA1,A19,D30
SCK1,A18,D29
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A16,D27
A15,D26
TOUCH,PWM,D25
D24
GND
A12
A14,DAC
PROG
3V3_TNSY
VBUS
OP1_F
OP2_F
A13
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D32
D31
D30
D29
JOY_A
JOY_B
JOY_C
JOY_D
JOY_CENT
A12
GPS_TX
GPS_RX
GPS_EN
LCD_CS
LCD_RST
LCD_DC
LOG_GRN
LOG_TXO
LOG_RXI
XBEE_DOUT
XBEE_DIN
MOSI
MISO
SCK
OP1_A
OP2_A
OP1_B
OP2_B
OP1_C
OP2_C
OP1_D
OP2_D
OP1_E
OP2_E
5V
TEENSY3.1
U7
3V3_TNSY
JOY_A
JOY_B
JOY_C
JOY_D
JOY_CENT
R5_BUSSED
PULLUP RESISTORS
BUSSED ARRAY BOURNS INC 4606X-101-103LF
DIGIKEY 4606X-1-103LF-ND
S1
JOY_A
JOY_B
JOY_C
A
B
C
CENTER
D
COMMON
JOY_CENT
JOY_D
JOYSWITCH
JOYSTICK SWITCH
ALPS SKQUCAA010
Mouser 688-SKQUCA
U2
AD0
AD1
AD2
AD3
RTS
AD5
VREF
ON
CTS
AD4
VCC
DOUT
DIN
D08
RST
PWM0
PWM1
RSV
DTR
GND
3V3
XBEE_DOUT
XBEE_DIN
XBEE
U4
BLK
GND
VCC
TXO
RXI
GRN
5V
LOG_TXO
LOG_RXI
LOG_GRN
OPENLOG
S2
5V
DPDT
P6
CONN_2
EXTERNAL POWER
C&K PN: JS202011AQN
DIGIKEY 401-2000-ND
P1
CONN_5X2
OP1_A
OP1_B
OP1_C
5V
OP2_A
OP2_B
OP2_C
P2
CONN_5X2
OP1_D
OP1_E
OP1_F
5V
OP2_D
OP2_E
OP2_F
GAS SENSOR CONNECTIONS
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CONN_3X2
D30
3V3
D29
TEMERATURE & HUMIDITY SENSOR
SPARKFUN SEN-11295
(PULLUPS ON BREAKOUT BOARD)
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D33
3V3_REG_SHDN
3V3 REG SHUTDOWN (OPTIONAL)
P4
CONN_2X2
3V3
3V3_TNSY
3V3_REG
3V3 SELECT
P5
CONN_2
5V
VBUS
USB POWER SELECT
U5
SHDN
VIN
GND
VOUT
3V3_REG_SHDN
5V
3V3_REG
POLOLU_3V3
3V3, 500mA FOR XBEE PRO (OPTIONAL)
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PROG
PROG SWITCH (OPTIONAL)
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CONN_7X2
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A12
A13
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D29
D30
5V
SCK
MISO
MOSI
D33
D32
D31
EXPANSION HEADER
PWR_FLAG
PWR_FLAG
5V
PWR_FLAG
3V3
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