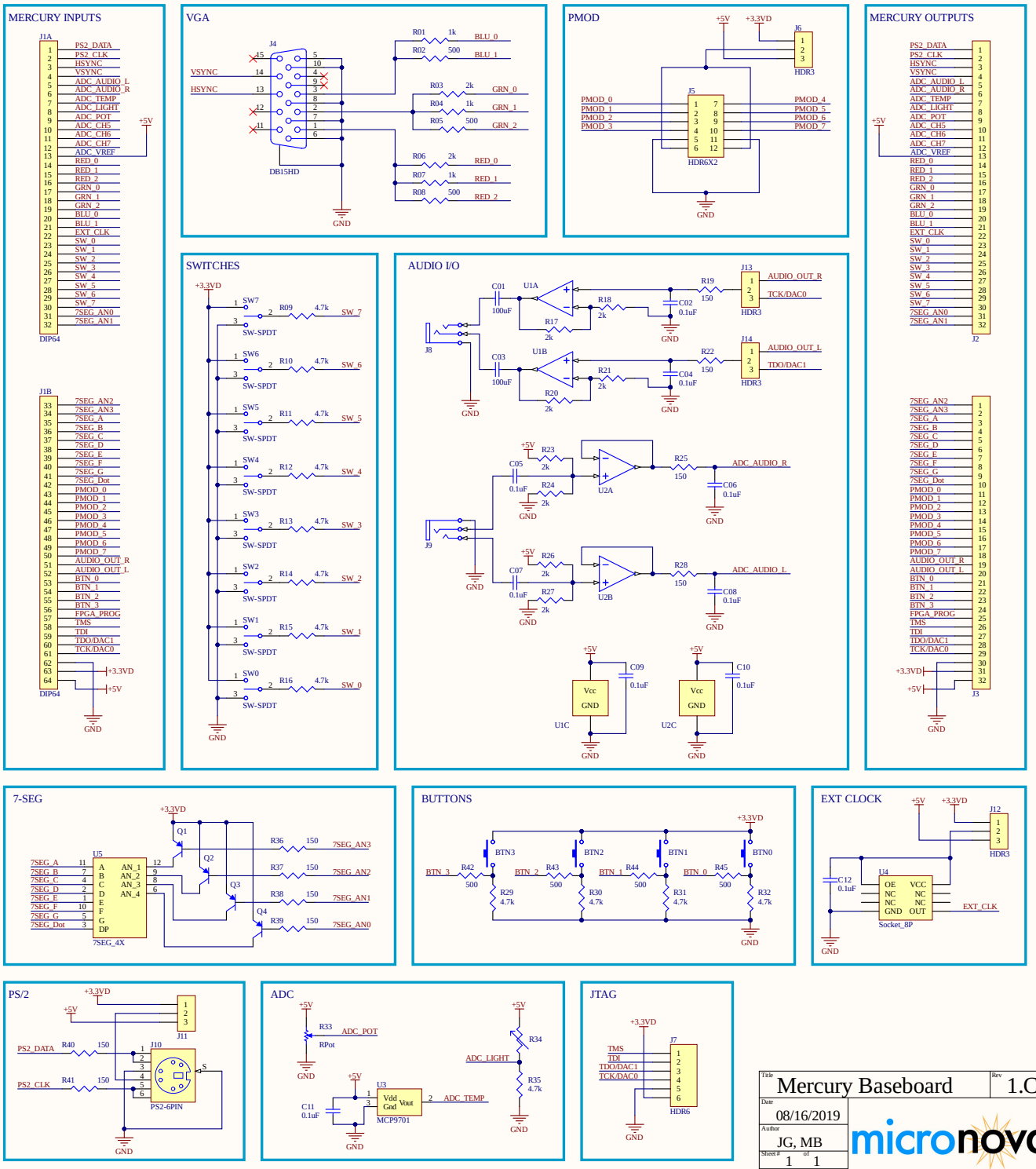

MERCURY INPUTS
J1A
PS2_DATA
PS2_CLK
HSYNC
VSYNC
ADC_AUDIO_L
ADC_AUDIO_R
ADC_TEMP
ADC_LIGHT
ADC_POT
ADC_CH5
ADC_CH6
ADC_CH7
ADC_VREF
RED_0
RED_1
RED_2
GRN_0
GRN_1
GRN_2
BLU_0
BLU_1
EXT_CLK
SW_0
SW_1
SW_2
SW_3
SW_4
SW_5
SW_6
SW_7
7SEG_AN0
7SEG_AN1
DIP64
+5V
J1B
7SEG_AN2
7SEG_AN3
7SEG_A
7SEG_B
7SEG_C
7SEG_D
7SEG_E
7SEG_F
7SEG_G
7SEG_Dot
PMOD_0
PMOD_1
PMOD_2
PMOD_3
PMOD_4
PMOD_5
PMOD_6
PMOD_7
AUDIO_OUT_R
AUDIO_OUT_L
BTN_0
BTN_1
BTN_2
BTN_3
FPGA_PROG
TMS
TDI
TDO/DAC1
TCK/DAC0
DIP64
+3.3VD
+5V
GND
VGA
J4
VSYNC
HSYNC
DB15HD
R01 1k BLU_0
R02 500 BLU_1
R03 2k GRN_0
R04 1k GRN_1
R05 500 GRN_2
R06 2k RED_0
R07 1k RED_1
R08 500 RED_2
GND
PMOD
+5V
+3.3VD
J6
HDR3
J5
PMOD_0
PMOD_1
PMOD_2
PMOD_3
PMOD_4
PMOD_5
PMOD_6
PMOD_7
HDR6X2
GND
MERCURY OUTPUTS
PS2_DATA
PS2_CLK
HSYNC
VSYNC
ADC_AUDIO_L
ADC_AUDIO_R
ADC_TEMP
ADC_LIGHT
ADC_POT
ADC_CH5
ADC_CH6
ADC_CH7
ADC_VREF
RED_0
RED_1
RED_2
GRN_0
GRN_1
GRN_2
BLU_0
BLU_1
EXT_CLK
SW_0
SW_1
SW_2
SW_3
SW_4
SW_5
SW_6
SW_7
7SEG_AN0
7SEG_AN1
J2
+5V
7SEG_AN2
7SEG_AN3
7SEG_A
7SEG_B
7SEG_C
7SEG_D
7SEG_E
7SEG_F
7SEG_G
7SEG_Dot
PMOD_0
PMOD_1
PMOD_2
PMOD_3
PMOD_4
PMOD_5
PMOD_6
PMOD_7
AUDIO_OUT_R
AUDIO_OUT_L
BTN_0
BTN_1
BTN_2
BTN_3
FPGA_PROG
TMS
TDI
TDO/DAC1
TCK/DAC0
+3.3VD
+5V
J3
GND
SWITCHES
+3.3VD
SW7 R09 4.7k SW_7
SW6 R10 4.7k SW_6
SW5 R11 4.7k SW_5
SW4 R12 4.7k SW_4
SW3 R13 4.7k SW_3
SW2 R14 4.7k SW_2
SW1 R15 4.7k SW_1
SW0 R16 4.7k SW_0
SW-SPDT
GND
AUDIO I/O
J8
J9
C01 100uF
C02 0.1uF
C03 100uF
C04 0.1uF
C05 0.1uF
C06 0.1uF
C07 0.1uF
C08 0.1uF
C09 0.1uF
C10 0.1uF
R17 2k
R18 2k
R19 150
R20 2k
R21 2k
R22 150
R23 2k
R24 2k
R25 150
R26 2k
R27 2k
R28 150
U1A
U1B
U2A
U2B
U1C
U2C
Vcc
GND
J13
J14
AUDIO_OUT_R
TCK/DAC0
AUDIO_OUT_L
TDO/DAC1
HDR3
ADC_AUDIO_R
ADC_AUDIO_L
+5V
GND
7-SEG
+3.3VD
U5
7SEG_A
7SEG_B
7SEG_C
7SEG_D
7SEG_E
7SEG_F
7SEG_G
7SEG_Dot
AN_1
AN_2
AN_3
AN_4
7SEG_4X
Q1
Q2
Q3
Q4
R36 150 7SEG_AN3
R37 150 7SEG_AN2
R38 150 7SEG_AN1
R39 150 7SEG_AN0
BUTTONS
+3.3VD
BTN3
BTN2
BTN1
BTN0
BTN_3
BTN_2
BTN_1
BTN_0
R42 500
R43 500
R44 500
R45 500
R29 4.7k
R30 4.7k
R31 4.7k
R32 4.7k
GND
EXT CLOCK
+5V
+3.3VD
J12
HDR3
C12 0.1uF
U4
OE
VCC
NC
NC
NC
NC
GND
OUT
EXT_CLK
Socket_8P
GND
PS/2
+3.3VD
+5V
J11
PS2_DATA
PS2_CLK
R40 150
R41 150
J10
PS2-6PIN
GND
ADC
+5V
R33 ADC_POT
RPot
GND
U3
Vdd
Gnd
Vout
MCP9701
C11 0.1uF
ADC_TEMP
R34
ADC_LIGHT
R35 4.7k
GND
JTAG
+3.3VD
TMS
TDI
TDO/DAC1
TCK/DAC0
J7
HDR6
GND
Title
Mercury Baseboard
Rev
1.C
Date
08/16/2019
Author
JG, MB
Sheet #
1
of
1
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