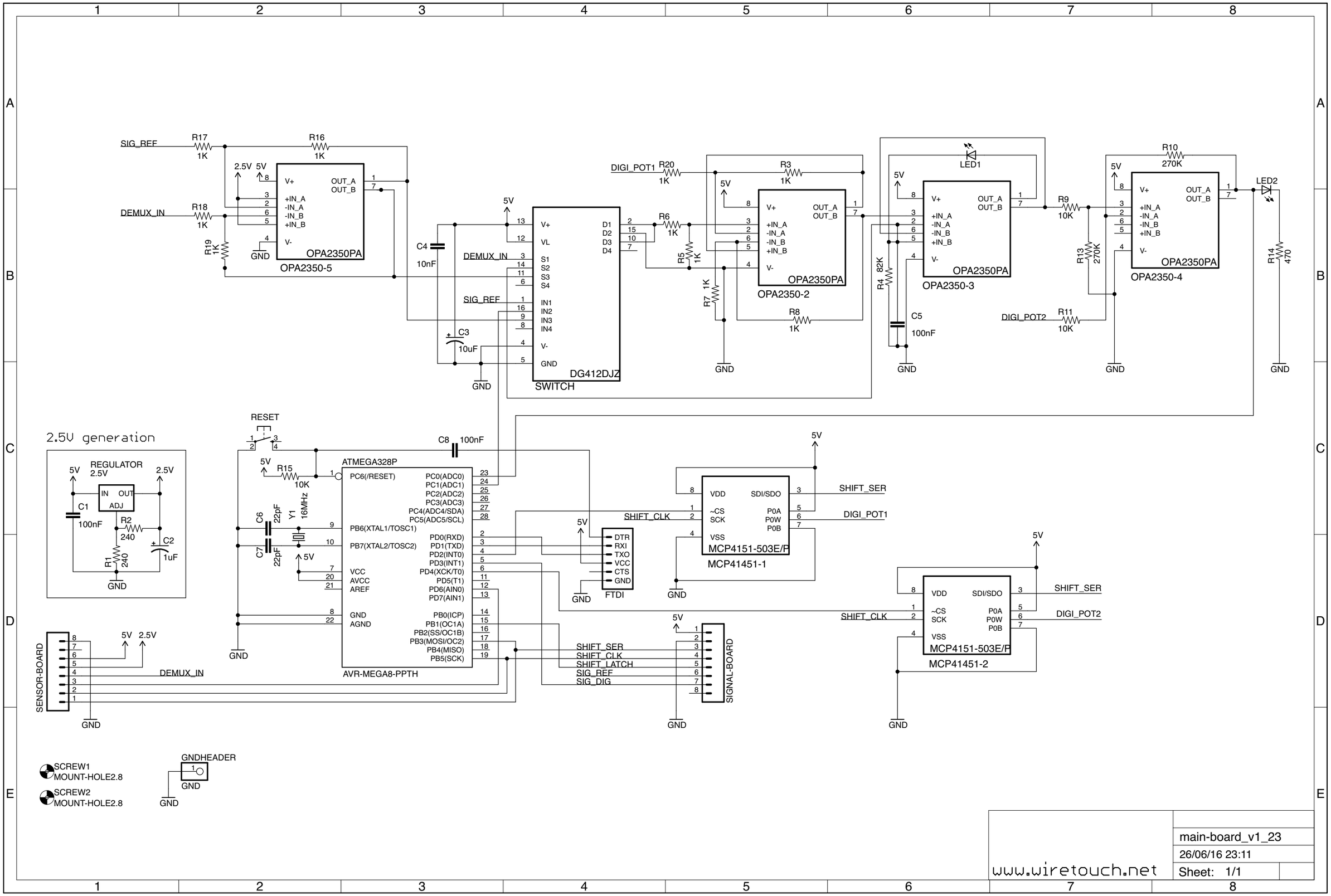
SIG_REF
R17
1K
R16
1K
2.5V 5V
DEMUX_IN
R18
1K
R19
1K
GND
OPA2350PA
OPA2350-5
V+
OUT_A
OUT_B
+IN_A
-IN_A
-IN_B
+IN_B
V-
C4
10nF
DEMUX_IN
SIG_REF
C3
10uF
5V
VL
S1
S2
S3
S4
IN1
IN2
IN3
IN4
GND
D1
D2
D3
D4
DG412DJZ
SWITCH
DIGI_POT1
R20
1K
R3
1K
R6
1K
R5
1K
R7
1K
R8
1K
OPA2350-2
LED1
R4
82K
C5
100nF
OPA2350-3
R9
10K
R10
270K
R13
270K
DIGI_POT2
R11
10K
OPA2350-4
LED2
R14
470
2.5V generation
REGULATOR
2.5V
IN
OUT
ADJ
C1
100nF
R2
240
R1
240
C2
1uF
RESET
R15
10K
C8
100nF
ATMEGA328P
PC6(/RESET)
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
VCC
AVCC
AREF
GND
AGND
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
AVR-MEGA8-PPTH
C6
22pF
C7
22pF
Y1
16MHz
DTR
RXI
TXO
VCC
CTS
GND
FTDI
SHIFT_CLK
VDD
SDI/SDO
~CS
SCK
P0A
P0W
P0B
VSS
MCP4151-503E/P
MCP41451-1
SHIFT_SER
DIGI_POT1
MCP41451-2
DIGI_POT2
SENSOR-BOARD
SHIFT_SER
SHIFT_CLK
SHIFT_LATCH
SIG_REF
SIG_DIG
SIGNAL-BOARD
SCREW1
MOUNT-HOLE2.8
SCREW2
MOUNT-HOLE2.8
GNDHEADER
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main-board_v1_23
26/06/16 23:11
Sheet: 1/1