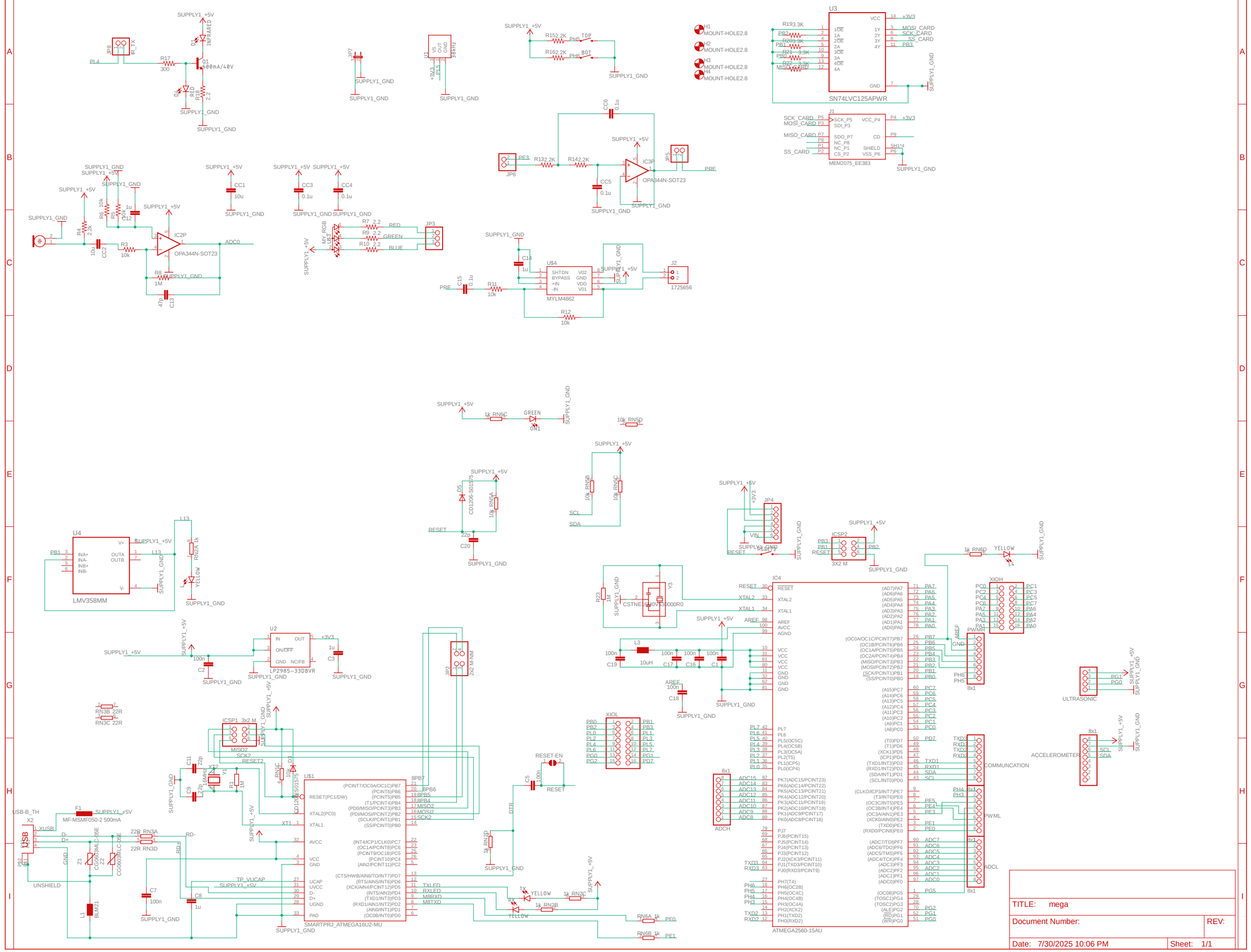
SUPPLY1 +5V
SUPPLY1_GND
INFRARED
Q1
600mA/40V
R17
300
JP8
R_1K
PL4
D1
D2
R18
2.2
R152.2K
R162.2K
PH5
PH6
TOP
BOT
JP7
JP1
VS
OUT
GND
38KHz
H1 MOUNT-HOLE2.8
H2 MOUNT-HOLE2.8
H3 MOUNT-HOLE2.8
H4 MOUNT-HOLE2.8
U3
SN74LVC125APWR
R193.3K
R203.3K
R213.3K
R223.3K
PB2
PB1
PB0
MISO_CARD
MOSI_CARD
SCK_CARD
SS_CARD
+3V3
PB3
J1
MEM2075_EE383
CC6
0.1u
JP6
PE3
R132.2K
R142.2K
IC3P
OPA344N-SOT23
PRE
CC5
CC1
10u
CC3
CC4
R4 2.2k
R5 10k
R6 10k
R7 2.2
R9 2.2
R10 2.2
RED
GREEN
BLUE
JP3
IC2P
ADC0
R3 10k
R8 1M
C12 1u
C2 10p
C13 47p
C14 1u
C15 0.1u
R11 10k
R12 10k
U$4
MYLM4862
SHTDN
BYPASS
+IN
-IN
V02
GND
VDD
V01
J2
1725656
LMV358MM
U4
L13
RN2A 1k
YELLOW
U2
LP2985-33DBVR
C3 1u
C2 100n
JP2
2x2 M-NM
ICSP1 3x2 M
MISO2
SCK2
RESET2
RN1C 10k
D3
CD1206-S01575
Y1
16MHz
C11 22p
C9 22p
R1 1M
XT2
SMARTPRJ_ATMEGA16U2-MU
PB7
PB6
PB5
PB4
MOSI2
SCK2
RESET(PC1/DW)
XTAL2(PC0)
XTAL1
AVCC
VCC
GND
UCAP
UVCC
D-
D+
UGND
PAD
TP_VUCAP
TXLED
RXLED
M8RXD
M8TXD
USB-B_TH
F1
MF-MSMF050-2 500mA
X2
1 XUSB
USB
D-
D+
GND
UNSHIELD
Z1 CG0603MLC-05E
Z2 CG0603MLC-05E
22R RN3A
22R RN3D
RD-
RD+
L1 BLM21
C7 100n
C8 1u
RESET-EN
C5 100n
RESET
D1TR
1k RN2D
SCL
SDA
10k RN5B
10k RN5C
D5 CD1206-S01575
10k RN5A
22p
C20
ICSP2
3X2 M
JP4
VIN
RESET
IC4
ATMEGA2560-15AU
XTAL2
XTAL1
AREF
AVCC
AGND
C19 100n
10uH
L3
C17 100n
C16 100n
C1 100n
C18 100n
Y3
CSTNE16M0V530000R0
R23 1M
XIOH
XIOL
PWMH
PWML
ADCH
ADCL
COMMUNCATION
ULTRASONIC
ACCELEROMETER
8x1
1k RN6D
YELLOW
L4
1k RN2B
1k RN2C
RN6A 1k
RN6B 1k
PE0
PE1
10k RN5D
GREEN
0N1
1k RN6C
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