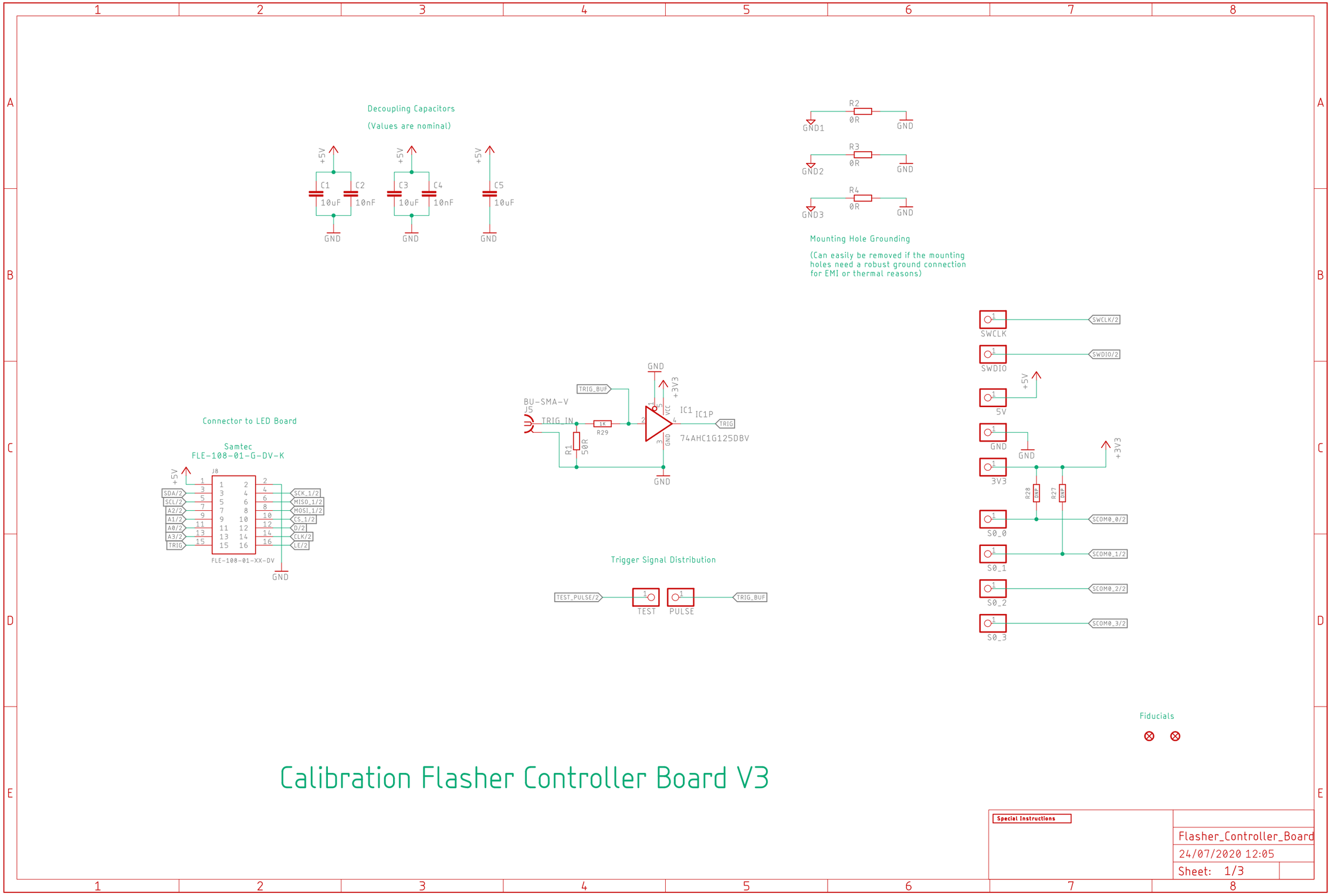

Calibration Flasher Controller Board V3

Special Instructions

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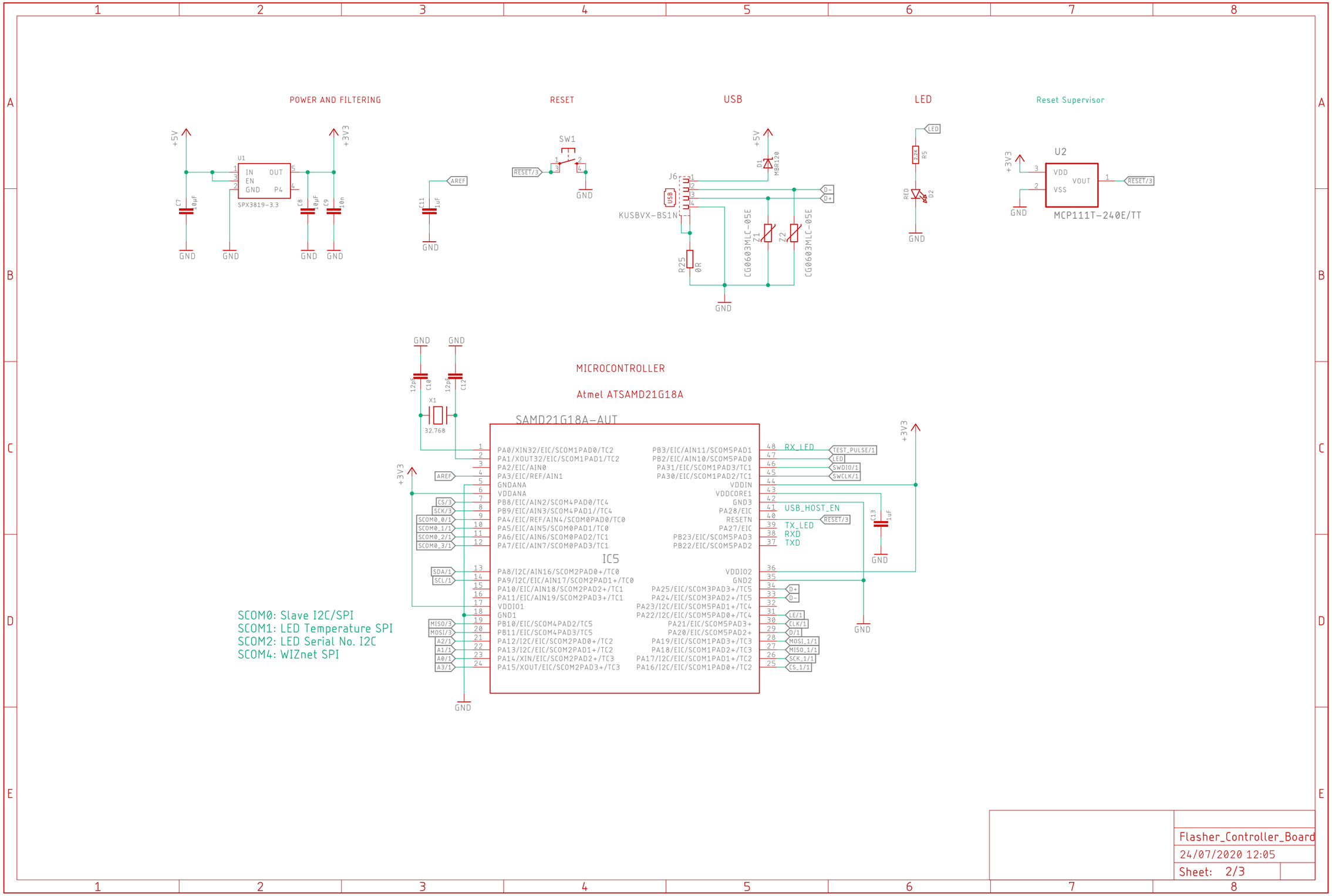
POWER AND FILTERING
+5V
+3V3
U1
IN
EN
GND
OUT
P4
SPX3819-3.3
C7
10µF
C8
10µF
C9
10n
GND
RESET
SW1
RESET/3
AREF
C11
1uF
USB
J6
USB
KUSBVX-BS1N
D1
MBR120
R25
0R
CG0603MLC-05E
Z1
Z2
D-
D+
LED
R5
2.2k
RED
D2
Reset Supervisor
U2
VDD
VOUT
VSS
MCP111T-240E/TT
MICROCONTROLLER
Atmel ATSAMD21G18A
SAMD21G18A-AUT
IC5
C10
12pF
C12
12pF
X1
32.768
PA0/XIN32/EIC/SCOM1PAD0/TC2
PA1/XOUT32/EIC/SCOM1PAD1/TC2
PA2/EIC/AIN0
PA3/EIC/REF/AIN1
GNDANA
VDDANA
PB8/EIC/AIN2/SCOM4PAD0/TC4
PB9/EIC/AIN3/SCOM4PAD1//TC4
PA4/EIC/REF/AIN4/SCOM0PAD0/TC0
PA5/EIC/AIN5/SCOM0PAD1/TC0
PA6/EIC/AIN6/SCOM0PAD2/TC1
PA7/EIC/AIN7/SCOM0PAD3/TC1
PA8/I2C/AIN16/SCOM2PAD0+/TC0
PA9/I2C/EIC/AIN17/SCOM2PAD1+/TC0
PA10/EIC/AIN18/SCOM2PAD2+/TC1
PA11/EIC/AIN19/SCOM2PAD3+/TC1
VDDIO1
GND1
PB10/EIC/SCOM4PAD2/TC5
PB11/EIC/SCOM4PAD3/TC5
PA12/I2C/EIC/SCOM2PAD0+/TC2
PA13/I2C/EIC/SCOM2PAD1+/TC2
PA14/XIN/EIC/SCOM2PAD2+/TC3
PA15/XOUT/EIC/SCOM2PAD3+/TC3
PB3/EIC/AIN11/SCOM5PAD1
PB2/EIC/AIN10/SCOM5PAD0
PA31/EIC/SCOM1PAD3/TC1
PA30/EIC/SCOM1PAD2/TC1
VDDIN
VDDCORE1
GND3
PA28/EIC
RESETN
PA27/EIC
PB23/EIC/SCOM5PAD3
PB22/EIC/SCOM5PAD2
VDDIO2
GND2
PA25/EIC/SCOM3PAD3+/TC5
PA24/EIC/SCOM3PAD2+/TC5
PA23/I2C/EIC/SCOM5PAD1+/TC4
PA22/I2C/EIC/SCOM5PAD0+/TC4
PA21/EIC/SCOM5PAD3+
PA20/EIC/SCOM5PAD2+
PA19/EIC/SCOM1PAD3+/TC3
PA18/EIC/SCOM1PAD2+/TC3
PA17/I2C/EIC/SCOM1PAD1+/TC2
PA16/I2C/EIC/SCOM1PAD0+/TC2
RX_LED
USB_HOST_EN
TX_LED
RXD
TXD
TEST_PULSE/1
LED
SWDIO/1
SWCLK/1
RESET/3
C13
1uF
D+
D-
LE/1
CLK/1
D/1
MOSI_1/1
MISO_1/1
SCK_1/1
CS_1/1
CS/3
SCK/3
SCOM0_0/1
SCOM0_1/1
SCOM0_2/1
SCOM0_3/1
SDA/1
SCL/1
MISO/3
MOSI/3
A2/1
A1/1
A0/1
A3/1
SCOM0: Slave I2C/SPI
SCOM1: LED Temperature SPI
SCOM2: LED Serial No. I2C
SCOM4: WIZnet SPI
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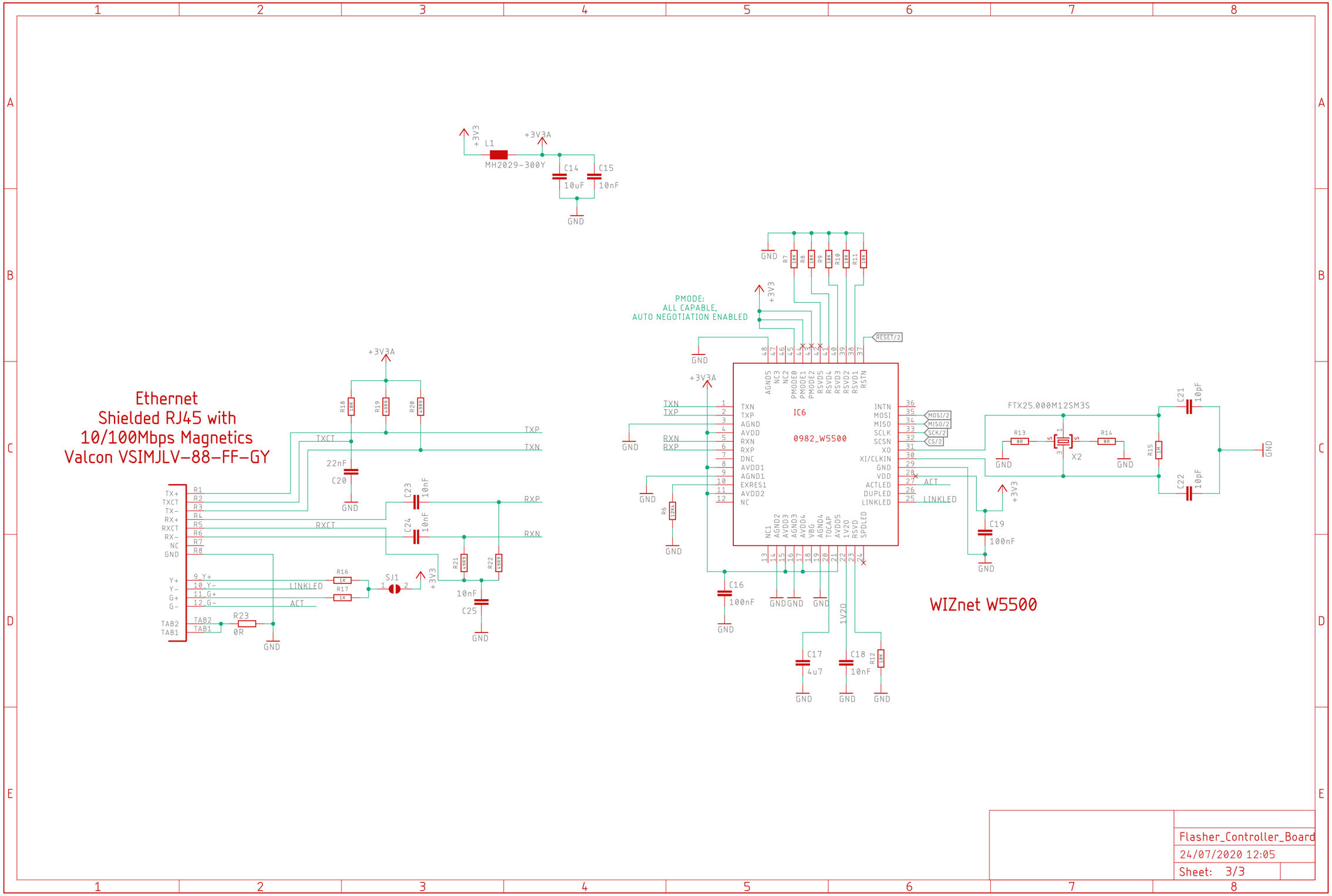
Ethernet
Shielded RJ45 with
10/100Mbps Magnetics
Valcon VSIMJLV-88-FF-GY
WIZnet W5500
IC6
0982_W5500
FTX25.000M12SM3S
PMODE:
ALL CAPABLE,
AUTO NEGOTIATION ENABLED
MH2029-300Y
L1
+3V3
+3V3A
GND
TXP
TXN
RXP
RXN
TXCT
RXCT
LINKLED
ACT
RESET/2
MOSI/2
MISO/2
SCK/2
CS/2
1V20
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