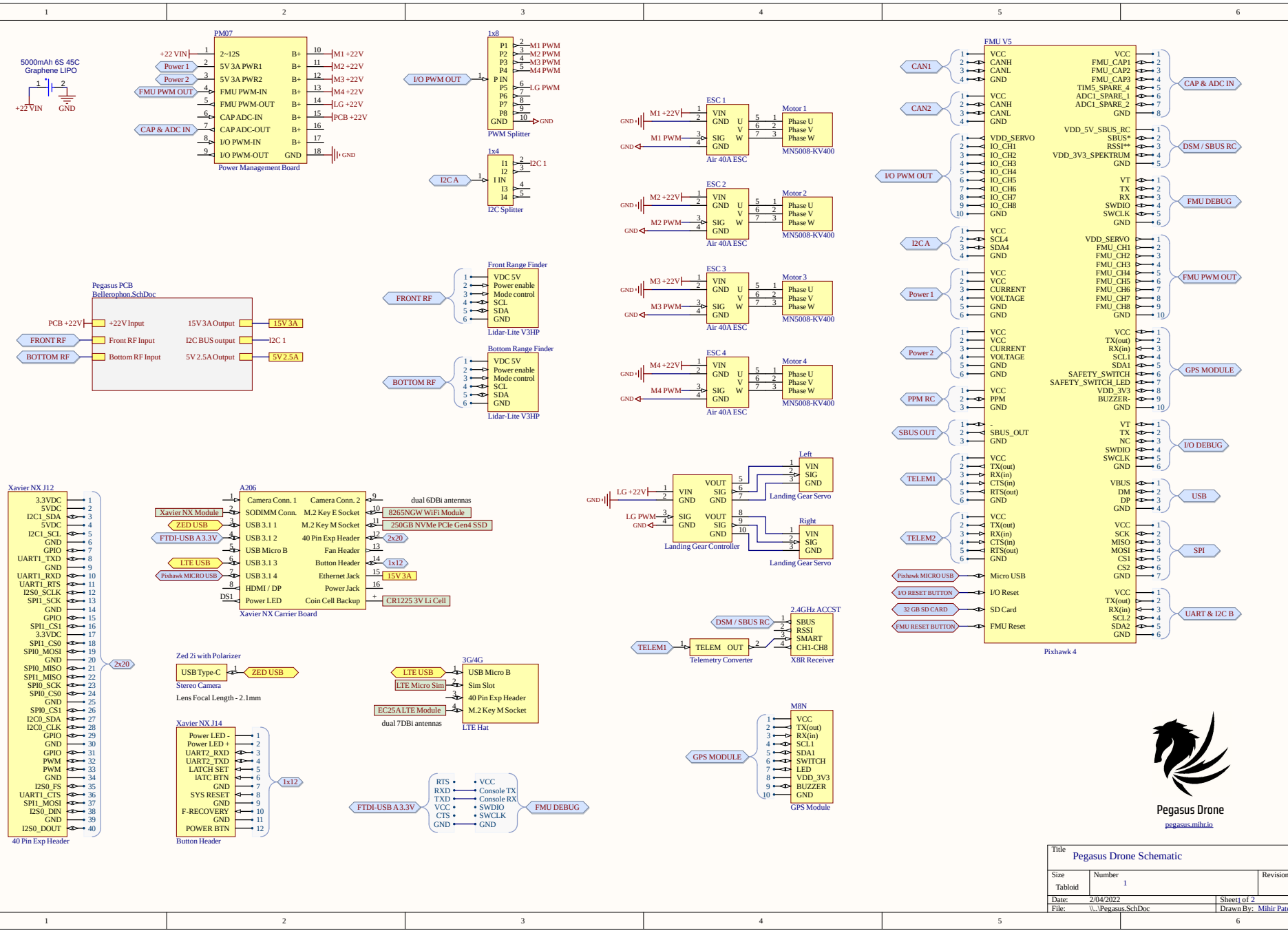
5000mAh 6S 45C Graphene LIPO
+22 VIN
GND
PM07
2~12S
5V 3A PWR1
5V 3A PWR2
FMU PWM-IN
FMU PWM-OUT
CAP ADC-IN
CAP ADC-OUT
I/O PWM-IN
I/O PWM-OUT
B+
M1 +22V
M2 +22V
M3 +22V
M4 +22V
LG +22V
PCB +22V
Power Management Board
Power 1
Power 2
FMU PWM OUT
CAP & ADC IN
1x8
P1
P2
P3
P4
P IN
P5
P6
P7
P8
M1 PWM
M2 PWM
M3 PWM
M4 PWM
LG PWM
PWM Splitter
I/O PWM OUT
1x4
I1
I2
I IN
I3
I4
I2C 1
I2C Splitter
I2C A
Pegasus PCB
Bellerophon.SchDoc
+22V Input
Front RF Input
Bottom RF Input
15V 3A Output
I2C BUS output
5V 2.5A Output
15V 3A
5V 2.5A
PCB +22V
FRONT RF
BOTTOM RF
Front Range Finder
VDC 5V
Power enable
Mode control
SCL
SDA
GND
Lidar-Lite V3HP
Bottom Range Finder
ESC 1
ESC 2
ESC 3
ESC 4
VIN
GND
SIG
U
V
W
Air 40A ESC
Motor 1
Motor 2
Motor 3
Motor 4
Phase U
Phase V
Phase W
MN5008-KV400
M1 +22V
M1 PWM
M2 +22V
M2 PWM
M3 +22V
M3 PWM
M4 +22V
M4 PWM
Xavier NX J12
3.3VDC
5VDC
I2C1_SDA
I2C1_SCL
GPIO
UART1_TXD
UART1_RXD
UART1_RTS
I2S0_SCLK
SPI1_SCK
SPI1_CS1
SPI1_CS0
SPI0_MOSI
SPI0_MISO
SPI1_MISO
SPI0_SCK
SPI0_CS0
SPI0_CS1
I2C0_SDA
I2C0_CLK
PWM
I2S0_FS
UART1_CTS
SPI1_MOSI
I2S0_DIN
I2S0_DOUT
2x20
40 Pin Exp Header
A206
Camera Conn. 1
Camera Conn. 2
SODIMM Conn.
M.2 Key E Socket
USB 3.1 1
M.2 Key M Socket
USB 3.1 2
40 Pin Exp Header
USB Micro B
Fan Header
USB 3.1 3
Button Header
USB 3.1 4
Ethernet Jack
HDMI / DP
Power Jack
Power LED
Coin Cell Backup
DS1
Xavier NX Module
ZED USB
FTDI-USB A 3.3V
LTE USB
Pixhawk MICRO USB
dual 6DBi antennas
8265NGW WiFi Module
250GB NVMe PCIe Gen4 SSD
2x20
1x12
15V 3A
CR1225 3V Li Cell
Xavier NX Carrier Board
Zed 2i with Polarizer
USB Type-C
ZED USB
Stereo Camera
Lens Focal Length - 2.1mm
Xavier NX J14
Power LED -
Power LED +
UART2_RXD
UART2_TXD
LATCH SET
IATC BTN
GND
SYS RESET
F-RECOVERY
POWER BTN
1x12
Button Header
3G/4G
USB Micro B
Sim Slot
40 Pin Exp Header
M.2 Key M Socket
LTE USB
LTE Micro Sim
EC25A LTE Module
dual 7DBi antennas
LTE Hat
FTDI-USB A 3.3V
RTS
RXD
TXD
VCC
CTS
GND
Console TX
Console RX
SWDIO
SWCLK
FMU DEBUG
Left
Right
Landing Gear Servo
Landing Gear Controller
LG +22V
LG PWM
VOUT
SIG
TELEM1
TELEM OUT
Telemetry Converter
DSM / SBUS RC
2.4GHz ACCST
SBUS
RSS1
SMART
CH1-CH8
X8R Receiver
M8N
GPS MODULE
BUZZER
GPS Module
FMU V5
CAN1
CAN2
I2C A
Power 1
Power 2
PPM RC
SBUS OUT
TELEM1
TELEM2
CAN
CANH
CANL
VDD_SERVO
IO_CH1
IO_CH2
IO_CH3
IO_CH4
IO_CH5
IO_CH6
IO_CH7
IO_CH8
SCL4
SDA4
VOLTAGE
PPM
SBUS_OUT
TX(out)
RX(in)
CTS(in)
RTS(out)
Micro USB
I/O Reset
SD Card
FMU Reset
FMU_CAP1
FMU_CAP2
FMU_CAP3
TIM5_SPARE_4
ADC1_SPARE_1
ADC1_SPARE_2
VDD_5V_SBUS_RC
SBUS*
RSSI**
VDD_3V3_SPEKTRUM
VT
TX
RX
SWDIO
SWCLK
FMU_CH1
FMU_CH2
FMU_CH3
FMU_CH4
FMU_CH5
FMU_CH6
FMU_CH7
FMU_CH8
SAFETY_SWITCH
SAFETY_SWITCH_LED
VDD_3V3
BUZZER-
NC
SCK
MISO
MOSI
CS1
CS2
SDA2
CAP & ADC IN
DSM / SBUS RC
FMU DEBUG
FMU PWM OUT
GPS MODULE
I/O DEBUG
USB
SPI
UART & I2C B
Pixhawk MICRO USB
I/O RESET BUTTON
32 GB SD CARD
FMU RESET BUTTON
Pixhawk 4
Pegasus Drone
pegasus.mihir.io
Title
Pegasus Drone Schematic
Size
Tabloid
Number
1
Revision
V2
Date:
2/04/2022
Sheet1 of 2
File:
\\...\Pegasus.SchDoc
Drawn By:
Mihir Patel