RAW R3 0R Un-Reg IC1 LM2937 Vin Vout 3V3
C5 10uF C6 10uF C4 104
GND GND GND

3V3
C1 104 C2 104
GND

D12/MI R1 300 D1
GND

D13/SCK R2 300 D2
GND

D11/MO Key1
GND

M Mark Mark

USB IV_USB Un-Reg
VBUS 2/SB_D-
D- 3/SB_D+
D+ 4 D3
ID 5
GND GND
SCN

P1
D12/MI 6 5 3V3
D13/SCK 4 3 D11/MO
RESET 2 1
GND

3V3
10K R5
DTR-AVR C8 104 RESET

U1
AVCC 18 PC0(ADC0) 23 A0 R4 1K RF TP1
VCC 4 PC1(ADC1) 24 A1
VCC 6 PC2(ADC2) 25 A2
PC3(ADC3) 26 A3
PC6(/RESET) 29 PC4(ADC4/SDA) 27 A4/SDA
PC5(ADC5/SCL) 28 A5/SCL
AREF 20 ADC6 19 A6
ADC7 22 A7
PD0(RXD) 30 RXI
PB6(XTAL1/TOSC1) 7 PD1(TXD) 31 TXO
PD2(INT0) 32 D2
PD3(INT1)(OC2B) 1 D3 R6 1K PPM
PD4(XCK/T0) 2 D4
PD5(T1)(OC0B) 9 D5 R16 10K RSSI
PD6(AIN0)(OC0A) 10 D6 C13 1uF
PB7(XTAL2/TOSC2) 8 PD7(AIN1) 11 D7 GND
PB0(ICP) 12 D8
PB1(OC1A) 13 D9
PB2(SS/OC1B) 14 D10
AGND 5 PB3(MOSI/OC2)(OC2A) 15 D11/MO A4/SDA
GND 3 PB4(MISO) 16 D12/MI A5/SCL
GND 21 PB5(SCK) 17 D13/SCK GND
GND ATMEGA8(328)

AREF C9 104
GND

22p C11 Y1
GND
22p C12

B1 Un-Reg
Buzzer R8 100
D10 Q1 NPN
GND

U2 CP2102
DCD 1 DTR 28 DTR-USB
RI 2 DSR 27
GND 3 TXD 26 RXI
USB_D+ D+ 4 RXD 25 TXO
USB_D- D- 5 RTS 24
VDD 6 CTS 23
C10 104 REGIN 7 NC 22
GND VBUS 8 NC 21
V_USB RST 9 NC 20
R7 10K NC 10 NC 19
NC 11 NC 18
SUSPEND_ 11 NC 17
SUSPEND 12 NC 16
NC 13 NC 15
NC 14 GND 29
CP2102
GND

DTR-USB DTR-AVR
TXO
PPM RXI
RAW RAW
GND
GND

3V3 L1 C3 104 C7 10uF 3V3-RF
GND

3V3-RF
U3 RFM22
VCC 5 ANT 1 ANT
D2 R11 1k NIRQ 14 NIRQ
D4 R12 1k NSEL 13 NSEL
D7 R13 1k SCLK 12 SCLK
D8 R14 1k SDI 11 SDI RXANT 3
D9 R15 1k SDO 10 SDO TXANT 4
SDN 15
GND 16 GPIO0 6
GND 9 GPIO1 7
GND 2 GPIO2 8
RFM22
GND

ANT SMA1
GND

V_USB
R9 1k R10 1k
D4 D5
TXO RXI

Title LazeLrsTX
Size A4 Number Revision v1.0
Date: 2019/6/12 Sheet of
File: F:\Drone\..\LinkLite.SchDoc Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Buzzer		B1	BUZZER9055	Buzzer	1
104	Capacitor	C1, C2, C3, C4, C8, C9, C10	0603 CAP	CAP	7
10uF	Capacitor	C5, C6, C7	1206	CAP	3
22p	Capacitor	C11, C12	0603 CAP	CAP	2
1uF	Capacitor	C13	0603 CAP	CAP	1
LED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D1, D2	0805 LED	LED	2
Diode	Diode	D3	DIODE-SOD123	Diode	1
LED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D4, D5	0603 cap	LED	2
LM2937		IC1	LM2937	LM2937	1
Key666		Key1	KEY 666	Key666	1
FB 300mA	Ferrite Bead 300mA	L1	0603 IND	FerriteBead_300mA	1
Mark		M	MarkPoint	Mark	1
Header 3X2	Header, 3-Pin, Dual row	P1	HDR2X3	Header 3X2	1
EdgePad		Pad1, Pad2, Pad3, Pad4, Pad5, Pad6, Pad7, Pad8, Pad9, Pad10, Pad11, Pad12, Pad13, Pad14	edgepad	EdgePad	14
NPN		Q1	NPN-SOT-23B_M	NPN	1
300	Resistor	R1, R2	0603 RES	Res	2
0R	Resistor	R3	0603 RES	Res	1
1K	Resistor	R4, R6, R9, R10, R11, R12, R13, R14, R15	0603 RES	Res	9
10K	Resistor	R5, R7, R16	0603 RES	Res	3
100	Resistor	R8	0603 RES	Res	1
SMA Base		SMA1	ANT SMA	SMA Base	1
Test Pad		TP1	Test Pad 1.2MM	Test Pad	1
ATmega328		U1	ATMEGA328FIX	ATmega328	1
CP2102		U2	CP2102	CP2102	1
RFM22		U3	RFM22SMD	RFM22	1
USB	USB Type-B SMT Socket	USB	MINI USB A	USB_SMT_B	1
Crystal3Foot		Y1	Crystal3Foot	Crystal3Foot	1