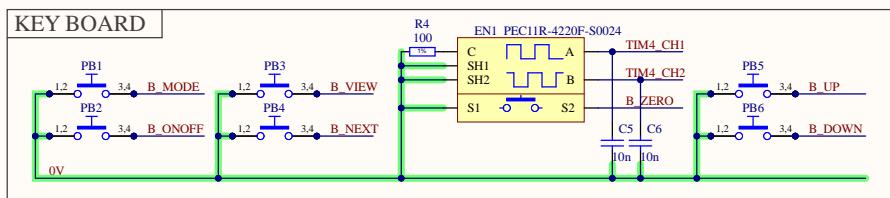
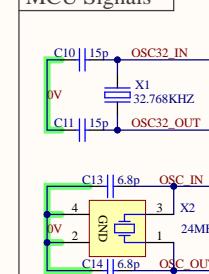
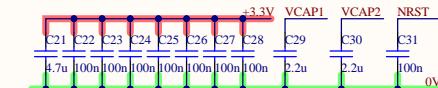


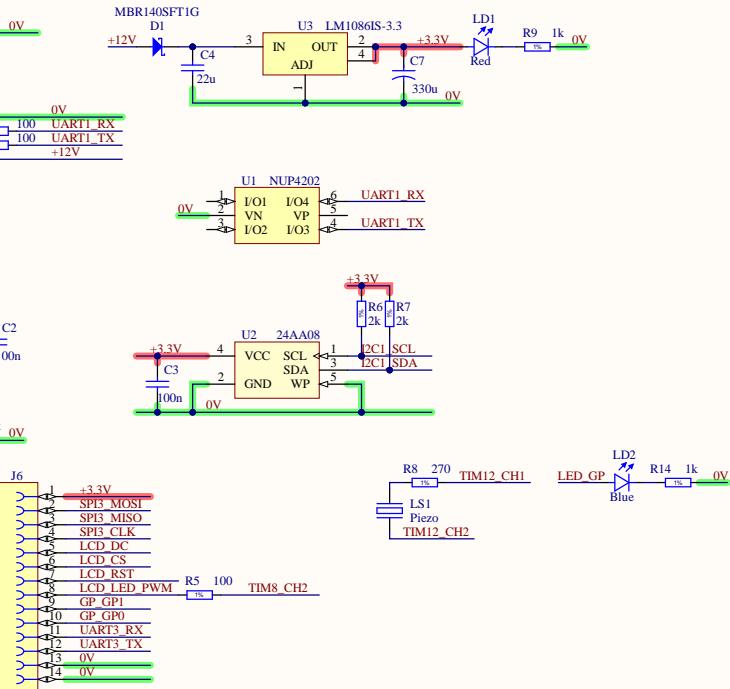
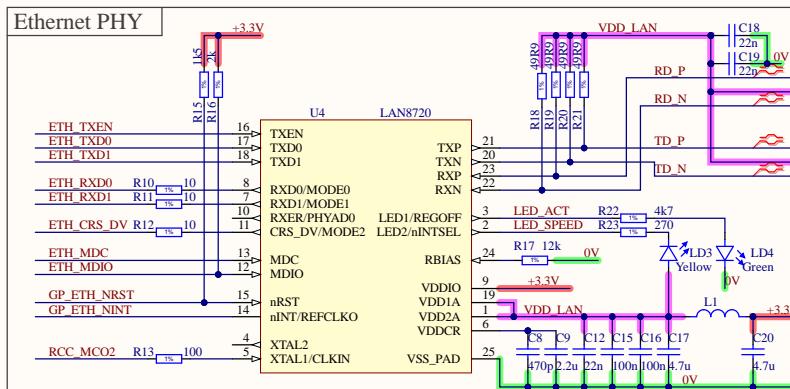
KEY BOARD**MCU Signals**

U5 STM32F407VET6	100 +3.3V
PE2	VDD
PE3	99 0V
PE4	98
PE5	97
PE6	96
VBAT	95 I2C1_SDA
PC13	94 I2C1_SCL
BOOT0	93 BOOT0
PC14/OSC32_IN	92 UART1_RX
OSC32_OUT	91 UART1_TX
0V	90 VSS
+3.3V	89 VDDA
C10 15p	88 PC15/OSC32_OUT
X1	87 PH0_OSC_IN
32.768KHZ	86 PH1_OSC_OUT
OSC32_IN	85 NRST
OSC_OUT	84 PCO
NRST	83 PC1
ETH_MDC	82 PC2
GP_ETH_NRST	81 PC3
GP_ETH_NINT	80 VDDA
+3.3V	79 VSSA
0V	78 VRFF+
+3.3V	77 VDDA
+3.3V	76 PA0/WKUP
0V	75 PA1
+3.3V	74 PA2
0V	73 PA3
+3.3V	72 PA4
VSS	71 PA5
+3.3V	70 PA6
0V	69 PA7
+3.3V	68 PA8
RCC_MCO1	67 PA9
RCC_MCO2	66 PA10
0V	65 PA11
+3.3V	64 PA12
VSS	63 PA13
+3.3V	62 PA14
0V	61 PA15
+3.3V	60 PA16
0V	59 PA17
+3.3V	58 PA18
VSS	57 PA19
+3.3V	56 PA20
0V	55 PA21
+3.3V	54 PA22
0V	53 PA23
+3.3V	52 PA24
0V	51 PA25
+3.3V	50 PA26
0V	49 PA27
+3.3V	48 PA28
0V	47 PA29
+3.3V	46 PA30
0V	45 PA31
+3.3V	44 PA32
0V	43 PA33
+3.3V	42 PA34
0V	41 PA35
+3.3V	40 PA36
0V	39 PA37
+3.3V	38 PA38
0V	37 PA39
+3.3V	36 PA40
0V	35 PA41
+3.3V	34 PA42
0V	33 PA43
+3.3V	32 PA44
0V	31 PA45
+3.3V	30 PA46
0V	29 PA47
+3.3V	28 PA48
0V	27 PA49
+3.3V	26 PA50
0V	25 PA51
+3.3V	24 PA52
0V	23 PA53
+3.3V	22 PA54
0V	21 PA55
+3.3V	20 PA56
0V	19 PA57
+3.3V	18 PA58
0V	17 PA59
+3.3V	16 PA60
0V	15 PA61
+3.3V	14 PA62
0V	13 PA63
+3.3V	12 PA64
0V	11 PA65
+3.3V	10 PA66
0V	9 PA67
+3.3V	8 PA68
0V	7 PA69
+3.3V	6 PA70
0V	5 PA71
+3.3V	4 PA72
0V	3 PA73
+3.3V	2 PA74
0V	1 PA75
+3.3V	0 PA76

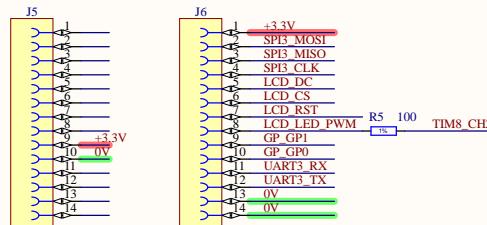
TP1 RCC_MCO1
TP2 RCC_MCO2
TP3 USB_OTG_FS_DP
TP4 USB_OTG_FS_DM
TP5 USB_OTG_FS_ID
TP6 CAN1_RX
TP7 CAN1_RX



B

**Ethernet PHY**

C



D

Title **PS3604LF**

Size: A3

Date: 11/22/2024

Time: 22:48:43

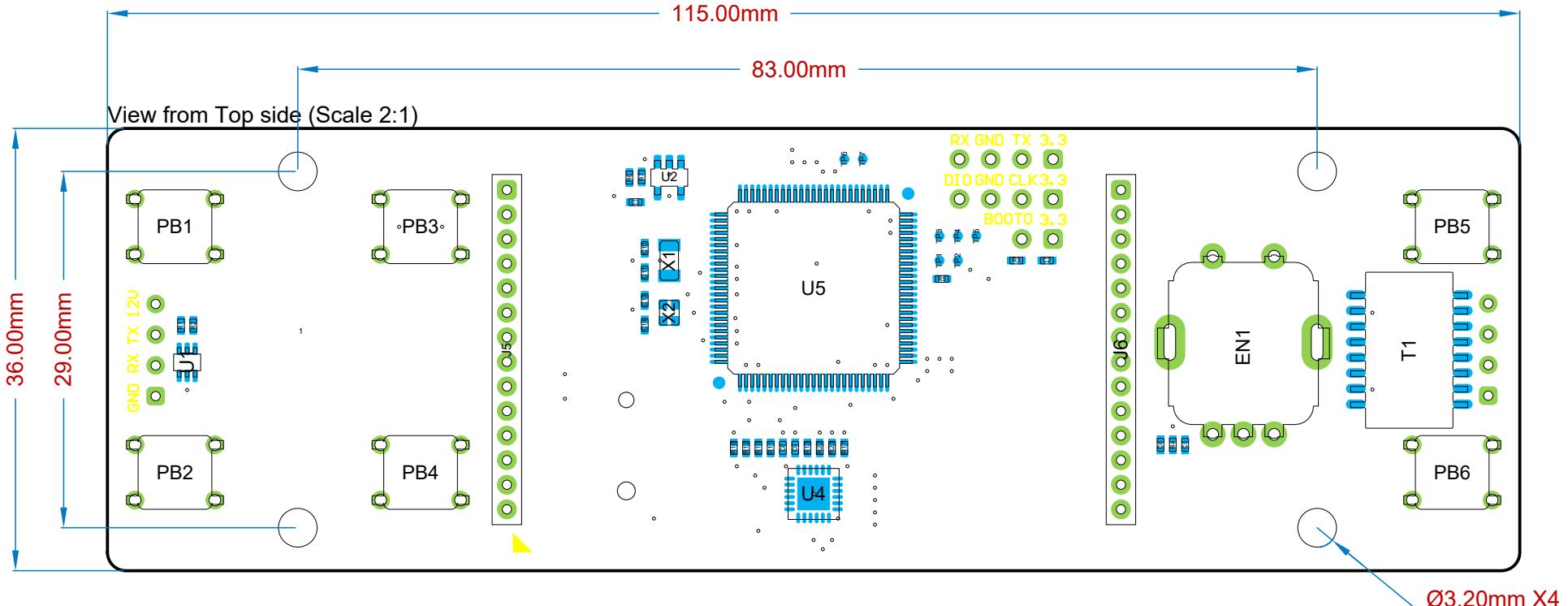
Revision:2.1

Sheet1 of 1

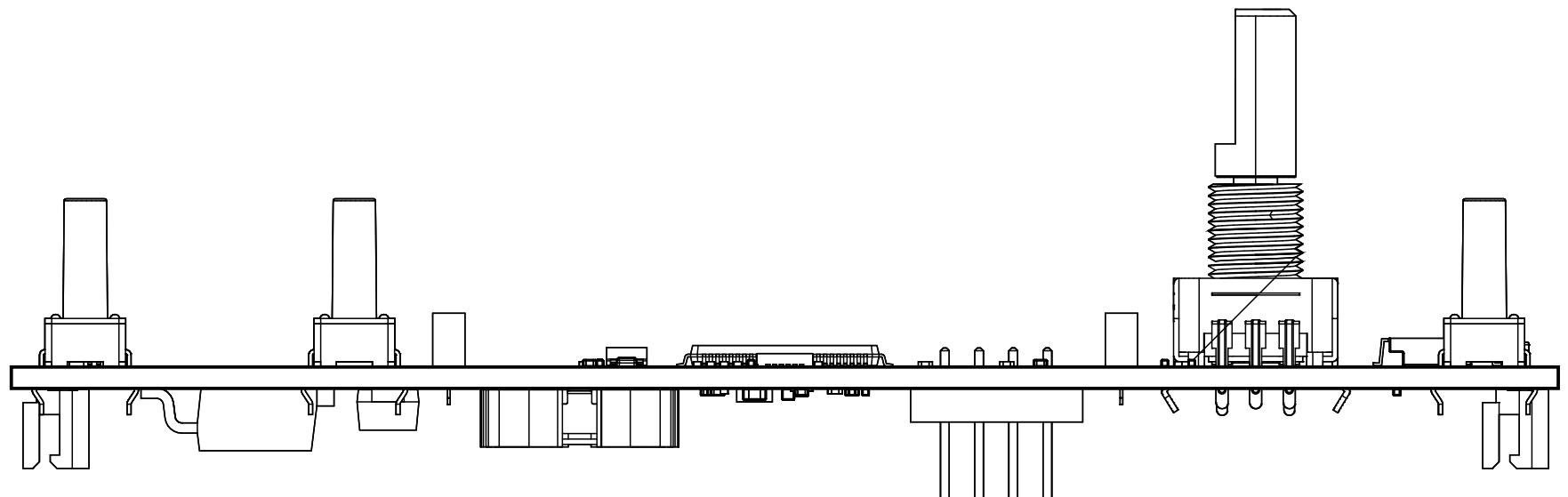
File: PS3604LF.SchDoc

Ukraine
Kharkiv
Storozhenko Roman

Designator	Comment	Footprint	Part Number	Part Description	Quantity
C1, C2, C3, C15, C16, C22, C23, C24, C25, C26, C27, C28, C31	100n	CAPC1005X55N	CC0402_100NF_50V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	13
C4	22u	CAPC3216X100N	CC1206_22UF_16V_20%_X5R	SMD Multilayer Chip Ceramic Capacitor	1
C5, C6	10n	CAPC1005X55N	CC0402_10NF_50V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	2
C7	330u	CAPMP7343X310N	CTE7343-31_330UF_6.3V_20%_LESR0025_KEM ET_T520	Low ESR OR025 Tantalum Chip Capacitor	1
C8	470p	CAPC1005X55N	CC0402_470PF_50V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	1
C9, C29, C30	2.2u	CAPC1005X55N	CC0402_2.2UF_6.3V_20%_X5R	SMD Multilayer Chip Ceramic Capacitor	3
C10, C11	15p	CAPC1005X55N	CC0402_15PF_50V_5%_NPO	SMD Multilayer Chip Ceramic Capacitor	2
C12, C18, C19	22n	CAPC1005X55N	CC0402_22NF_16V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	3
C13, C14	6.8p	CAPC1005X55N	CC0402_6.8PF_50V_0.5PF_NPO	SMD Multilayer Chip Ceramic Capacitor	2
C17, C20, C21	4.7u	CAPC1608X87N	CC0603_4.7UF_10V_10%_X5R	SMD Multilayer Chip Ceramic Capacitor	3
D1	MBR140SFT1G	SOD-123FL	MBR140SFT1G	Schottky Power Rectifier	1
EN1	PEC11R-4220F-S0024	EN_BOURNS_PEC11R-4x20F-Sxxxx	EN_BOUCNE_PEC11R-4220F-S0024	12 mm Incremental Encoder, 24 pulses, Push Momentary Switch	1
J1, J7	SPOX	MOLEX_22-03-5045	MOLEX_22-03-5045	2.50mm Pitch SPOX Wire-to-Board Header, Vertical, Shrouded, 4 Circuits, Tin (Sn) Plating	2
J2, J3	Header 4	3M_2304-6111-TG	3M_2304-6111-TG	4 Contacts - Vertical Contacts Straight Strip Header Pitch 2.54	2
J4	Header 2	3M_2302-6111-TG	3M_2302-6111-TG	2 Contacts - Horizontal Contacts Straight Strip Header Pitch 2.54	1
J5, J6	Socket 14	3M_955114-6102-AR	3M_955114-6102-AR	14 Contacts - 2mm x 2 mm Straight, Boardmount Socket, 950 Serie	2
L1	2.2uH	INDC2520X100N	IND1008_2.2UH_20%_TDK_MLP2520S 2R2MT0S1	SMT Inductors	1
LD1	Red	LEDC1608X80N_RED	LED_OF-SMD1608R	Surface Mount Red LED (0603 Case)	1
LD2	Blue	LEDC1608X80N_BLUE	LED_OF-SMD1608B	Surface Mount Red LED (0603 Case)	1
LD3	Yellow	LEDC1608X80N_YELLOW	LED_OF-SMD1608Y	Surface Mount Red LED (0603 Case)	1
LD4	Green	LEDC1608X80N_GREEN	LED_OF-SMD1608G	Surface Mount Green LED (0603 Case)	1
LS1	Piezo	HPS13C	HPS13C	Piezo sound generator	1
PB1, PB2, PB3, PB4, PB5, PB6	Push Button	PB_E-SWITCH_TL1105HF100Q	PB_E-SWITCH_TL1105HF100Q	12VDC 50mA SPST Tactile Push-Button Switch	6
R1, R2, R4, R5, R13	100	RESC1005X40N	R0402_100R_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	5
R3, R9, R14	1K	RESC1005X40N	R0402_1K_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	3
R6, R7, R16	2K	RESC1005X40N	R0402_2K_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	3
R8, R23	270	RESC1005X40N	R0402_270R_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	2
R10, R11, R12	10	RESC1005X40N	R0402_10R_1%_0.0625W_200PPM	General Purpose Thick Film Chip Resistor	3
R15	1K5	RESC1005X40N	R0402_1K5_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	1
R17	12k	RESC1005X40N	R0402_12K_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	1
R18, R19, R20, R21	49R9	RESC1005X40N	R0402_49R9_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	4
R22	4K7	RESC1005X40N	R0402_4K7_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	1
SK1	BH500	EEMB_BH500	EEMB_BH500	Battery holder for CR and LIR series 1216 to 1220, 1225	1
T1	LF-H84P-1	XFMR_LF-H84P	PE-68678	10/100BASE-Tx PC Card LAN Magnetics Module	1
TP1, TP2, TP3, TP4, TP5, TP6, TP7	Test Point	TP_SMD_800	TP_SMD_0.8MM	0.8mm round SMD Pad	7
U1	NUP4202	SOT65P220X110-6N	NUP4202W1	ESD Protection Diode, Low Clamping Voltage	1
U2	24AA08	SOT95P280X145-5N	24AA08T-I/OT	8K Serial EEPROM	1
U3	LM1086IS-3.3	TO254P1435X464-4N-R1041X635	LM1086IS-3.3	3.3V 1.5A Low Dropout Positive Regulators	1
U4	LAN8720	QFN50P400X400X100-25N-S265	LAN8720A-CP-TR	Small Footprint RMII 10/100 Ethernet Transceiver with HP Auto-MDIX Support	1
U5	STM32F407VET6	QFP50P1600X1600X160-100N	STM32F407VET6	ARM Cortex-M4 32b MCU+FPU, 210DMIPS, up to 1MB Flash/192+4KB RAM, USB OTG HS/FS, Ethernet, 17 TIMs, 3 ADCs, 15 comm. interfaces & camera	1
X1	32.768KHZ	OSCCC150X320X80-2N	32.768KHz_KX-327NHT	Quartz Crystal ±20ppm	1
X2	24MHZ	OSCCC160X200X65-4N	24MHz_XRCGB24M000F3M00R0	± 30ppm at (25±3°C), -30°C to +85°C, 6pF, Ceramic SMD Crystal, Type HCR2016	1



View from Front side (Scale 2:1)



A

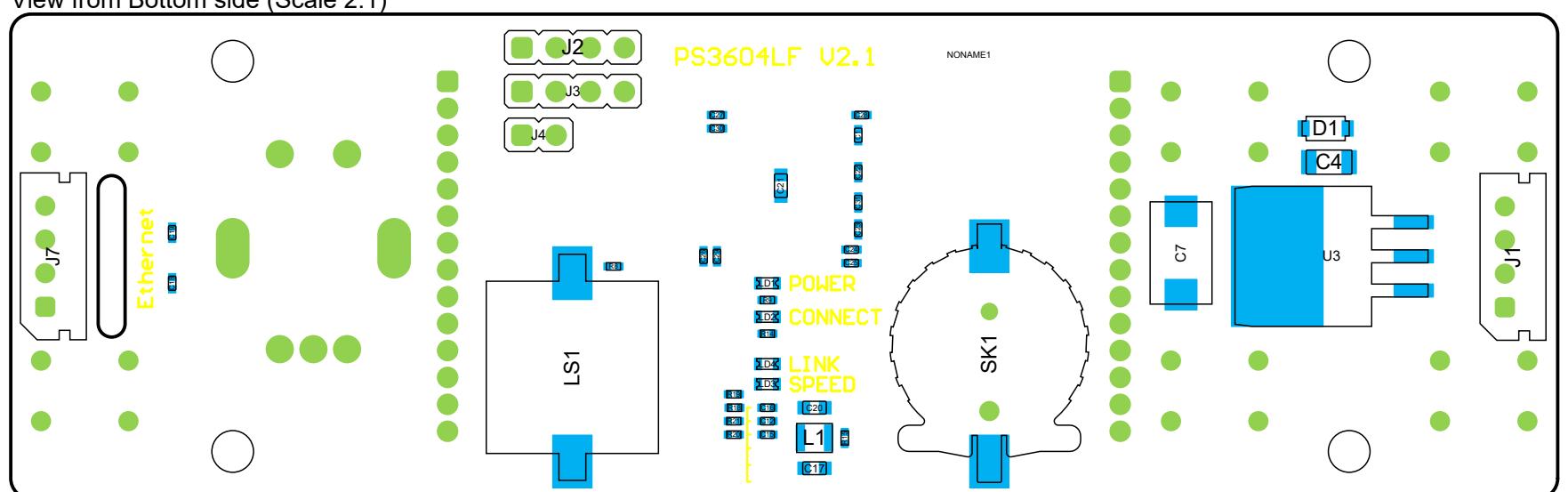
B

C

D

E

View from Bottom side (Scale 2:1)



A

B

C

D

E

