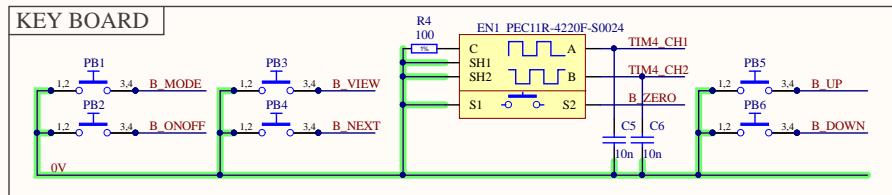
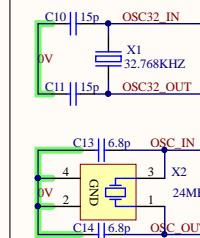


KEY BOARD**MCU Signals**

U5 STM32F407VET6	100 +3.3V
PE2	VDD
PE3	99 0V
PE4	98
PE5	97
PE6	96
PE7	95
PE8	94
PE9	93
PE10	92
PE11	91
PE12	90
PE13	89
PE14	88
PE15	87
PC1	86
PC2	85
PC3	84
PC4	83
PC5	82
PD1	81
PD2	80
PD3	79
PD4	78
PD5	77
PD6	76
PD7	75
PD8	74
PD9	73
PD10	72
PD11	71
PD12	70
PA0	69
PA1	68
PA2	67
PA3	66
PA4	65
PA5	64
PA6	63
PA7	62
PA8	61
PA9	60
PA10	59
PA11	58
PA12	57
PA13	56
PA14	55
PA15	54
PA16	53
PA17	52
PA18	51
PA19	50
PA20	49
PA21	48
PA22	47
PA23	46
PA24	45
PA25	44
PA26	43
PA27	42
PA28	41
PA29	40
PA30	39
PA31	38
TP1	RCC_MCO1
TP2	RCC_MCO2
TP3	USB_OTG_FS_DP
TP4	USB_OTG_FS_DM
TP5	USB_OTG_FS_ID
TP6	CANI_RX
TP7	CANI_RX
TP8	RCC_MCO1
TP9	USB_OTG_FS_VBUS
TP10	SWDIO
TP11	USB_OTG_FS_DM
TP12	USB_OTG_FS_ID
TP13	SWDIO
TP14	USB_OTG_FS_DP
TP15	USB_OTG_FS_ID
TP16	USB_OTG_FS_DM
TP17	USB_OTG_FS_DP
TP18	USB_OTG_FS_DM
TP19	USB_OTG_FS_ID
TP20	USB_OTG_FS_DM
TP21	USB_OTG_FS_ID
TP22	USB_OTG_FS_DM
TP23	USB_OTG_FS_ID
TP24	USB_OTG_FS_DM
TP25	USB_OTG_FS_ID
TP26	USB_OTG_FS_DM
TP27	USB_OTG_FS_ID
TP28	USB_OTG_FS_DM
TP29	USB_OTG_FS_ID
TP30	USB_OTG_FS_DM
TP31	USB_OTG_FS_ID
PA0/WKUP	0V
PA1	+3.3V
PA2	0V
PA3	+3.3V
PA4	0V
PA5	+3.3V
PA6	0V
PA7	+3.3V
PA8	0V
PA9	+3.3V
PA10	0V
PA11	+3.3V
PA12	0V
PA13	+3.3V
PA14	0V
PA15	+3.3V
PA16	0V
PA17	+3.3V
PA18	0V
PA19	+3.3V
PA20	0V
PA21	+3.3V
PA22	0V
PA23	+3.3V
PA24	0V
PA25	+3.3V
PA26	0V
PA27	+3.3V
PA28	0V
PA29	+3.3V
PA30	0V
PA31	+3.3V

Title **PS3604LF**

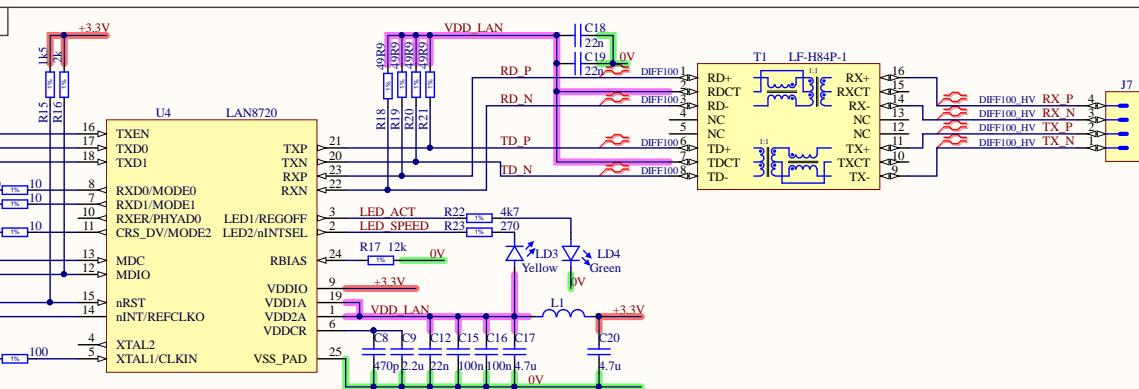
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Revision2.0

Date: 2019-03-21 Time: 2:10:42

Sheet 1 of 1

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Kharkiv
Storozhenko RomanCannot open file
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Revision2.0

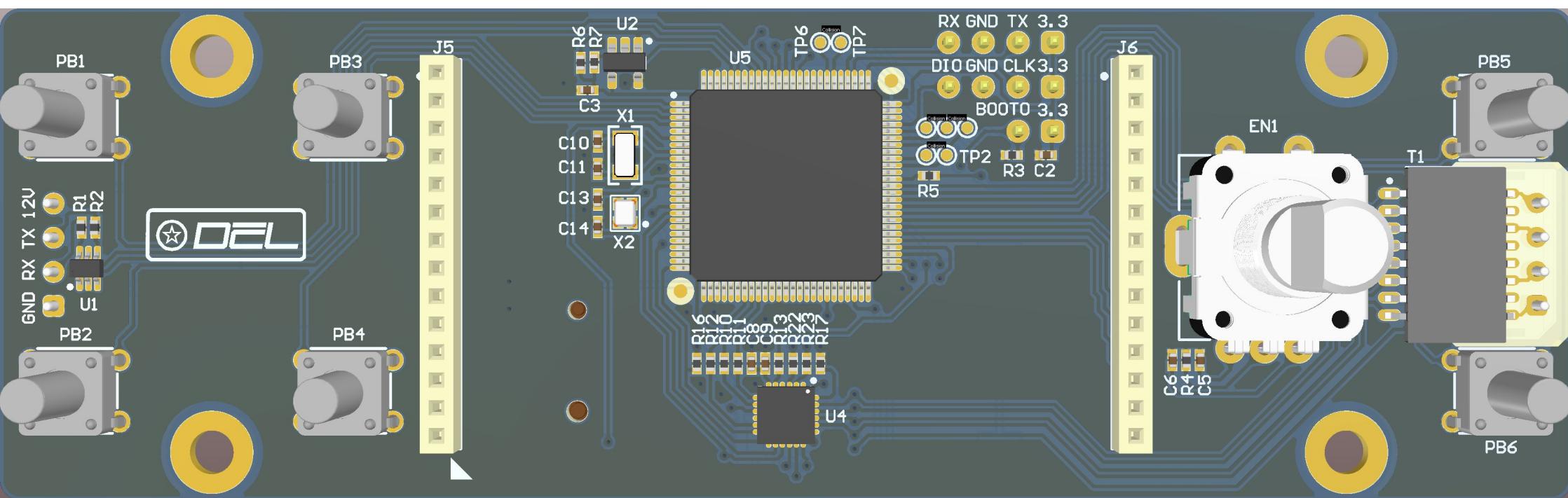
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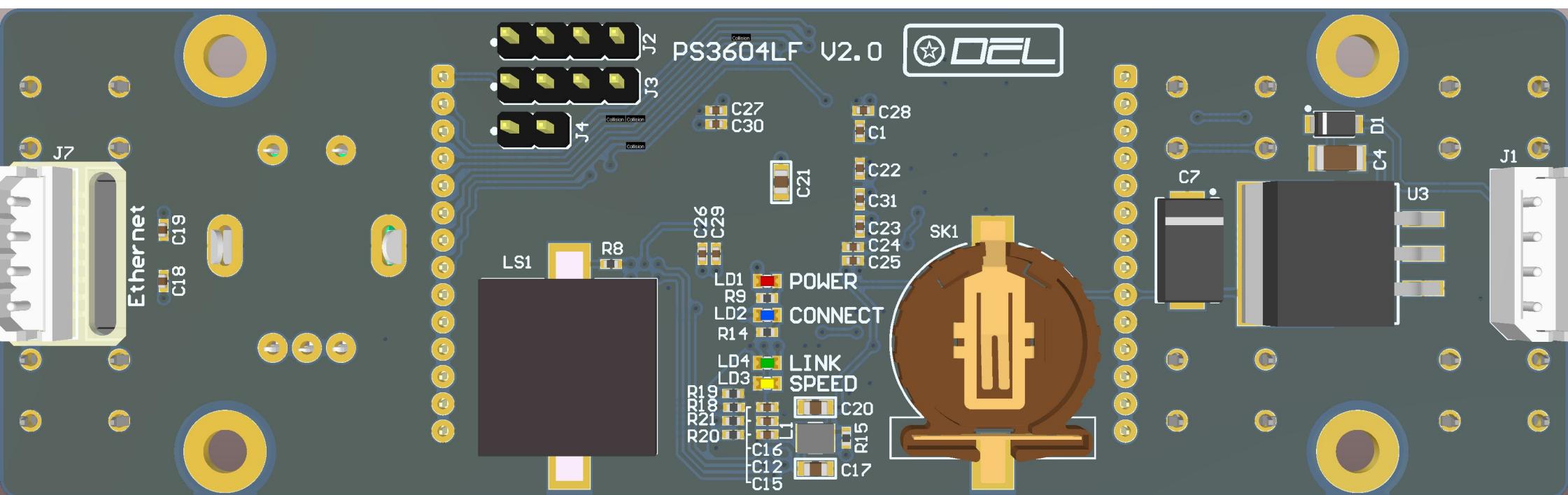
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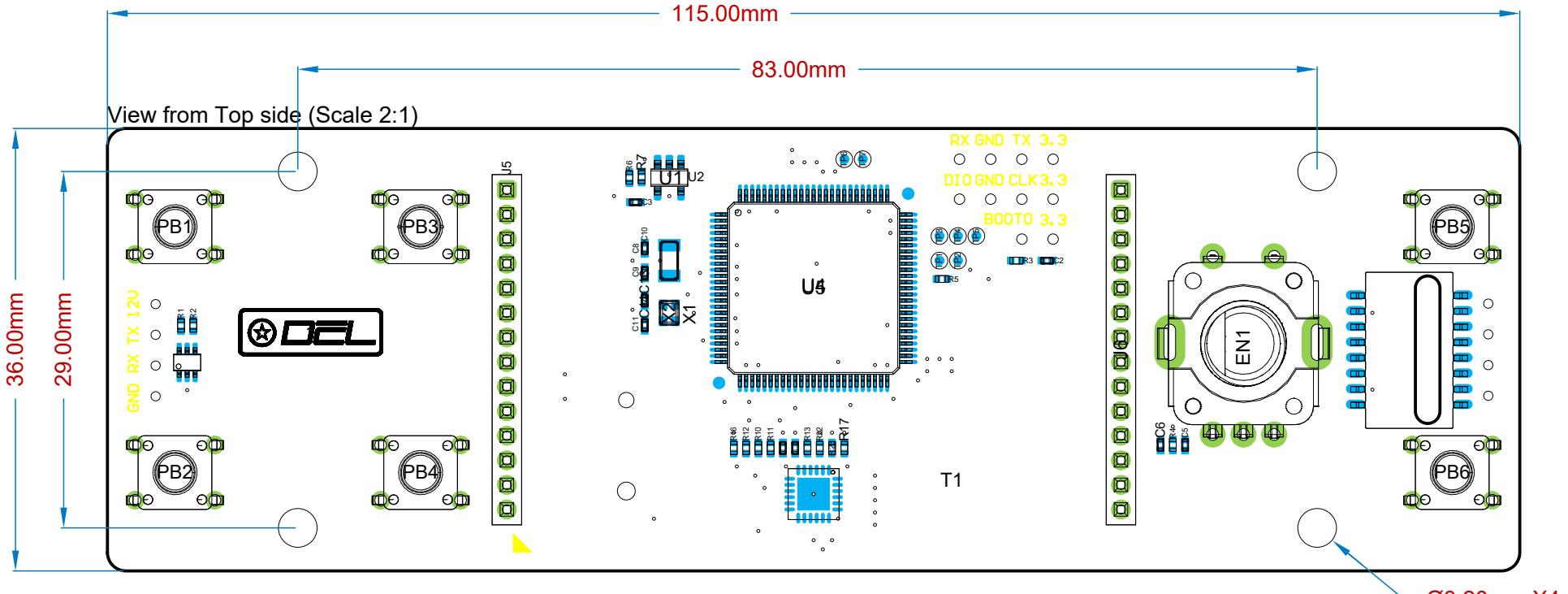
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Kharkiv
Storozhenko RomanCannot open file
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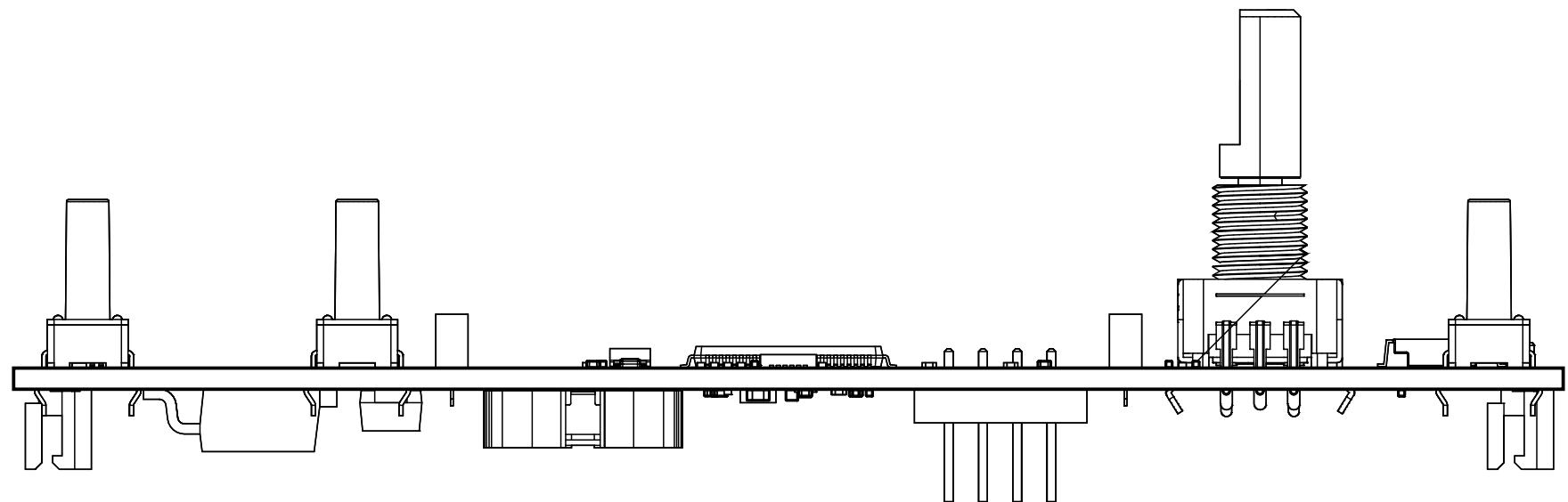
Designator	Part Description	Footprint	Part Number	Quantity
U4	Small Footprint RMII 10/100 Ethernet Transceiver with HP	QFN50P400X400X100-25N-S265	LAN8720A-CP-TR	1
U3	3.3V 1.5A Low Dropout Positive Regulators	TO254P1435X464-4N-R1041X635	LM1086IS-3.3	1
U5	ARM Cortex-M4 32b MCU+FPU, 210DMIPS, up to 1MB Flas	QFP50P1600X1600X160-100N	STM32F407VET6	1
SK1	Battery holder for CR and LIR series1216 to 1220,1225	EEMB_BH500	EEMB_BH500	1
J4	2 Contacts - Horizontal Contacts Straight Strip Header Pitch	3M_2302-6111-TG	3M_2302-6111-TG	1
J1, J7	2.50mm Pitch SPOX Wire-to-Board Header, Vertical, Shroud	MOLEX_22-03-5045	MOLEX_22-03-5045	2
J2, J3	4 Contacts - Vrtical Contacts Straight Strip Header Pitch 2.	3M_2304-6111-TG	3M_2304-6111-TG	2
J5, J6	14 Contacts - 2mm x 2 mm Straight, Boardmount Socket, 90°	3M_955114-6102-AR	3M_955114-6102-AR	2
X2	± 30ppm at (25±3°C), -30°C to +85°C, 6pF, Ceramic SMD Cr	OSCCC160X200X65-4N	24MHZ_XRCGB24M00	1
EN1	12 mm Incremental Encoder, 24 pulses, Push Momentary S	EN_BOURNS_PEC11R-4x20F-Sxxxx	EN_BOUNCE_PEC11R-	1
U1	ESD Protection Diode, Low Clamping Voltage	SOT65P220X110-6N	NUP4202W1	1
U2	8K Serial EEPROM	SOT95P280X145-5N	24AA08T-I/OT	1
L1	SMT Inductors	INDC2520X100N	IND1008_2.2UH_20%	1
LD1	Surface Mount Red LED (0603 Case)	LEDC1608X80N_RED	LED_OF-SMD1608R	1
LD2	Surface Mount Red LED (0603 Case)	LEDC1608X80N_BLUE	LED_OF-SMD1608B	1
LD3	Surface Mount Red LED (0603 Case)	LEDC1608X80N_YELLOW	LED_OF-SMD1608Y	1
LD4	Surface Mount Green LED (0603 Case)	LEDC1608X80N_GREEN	LED_OF-SMD1608G	1
C1, C2, C3, C15, C16, C	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_100NF_50V_	13
C4	SMD Multilayer Chip Ceramic Capacitor	CAPC3216X100N	CC1206_22UF_16V_2	1
C5, C6	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_10NF_50V_1	2
C8	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_470PF_50V_1	1
C9, C29, C30	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_2.2UF_6.3V_1	3
C10, C11	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_15PF_50V_5	2
C12, C18, C19	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_22NF_16V_1	3
C13, C14	SMD Multilayer Chip Ceramic Capacitor	CAPC1005X55N	CC0402_6.8PF_50V_0	2
C17, C20, C21	SMD Multilayer Chip Ceramic Capacitor	CAPC1608X87N	CC0603_4.7UF_10V_1	3
LS1	Piezo sound generator	HPS13C	HPS13C	1
C7	Low ESR OR025 Tantalum Chip Capacitor	CAPMP7343X310N	CTE7343-31_330UF_6	1
PB1, PB2, PB3, PB4, PE	12VDC 50mA SPST Tactile Push-Button Switch	PB_E-SWITCH_TL1105HF100Q	PB_E-SWITCH_TL1105	6
X1	Quartz Crystal ±20ppm	OSCCC150X320X80-2N	32.768KHz_KX-327NH	1
R1, R2, R4, R5, R13	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_100R_1%_0.06	5
R3, R9, R14	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_1K_1%_0.0625	3
R6, R7, R16	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_2K_1%_0.0625	3
R8, R23	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_270R_1%_0.06	2
R10, R11, R12	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_10R_1%_0.062	3
R15	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_1K5_1%_0.062	1
R17	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_12K_1%_0.062	1
R18, R19, R20, R21	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_49R9_1%_0.06	4
R22	General Purpose Thick Film Chip Resistor	RESC1005X40N	R0402_4K7_1%_0.062	1
D1	Schottky Power Rectifier	SOD-123FL	MBR140SFT1G	1
T1	10/100BASE-Tx PC Card LAN Magnetics Module	XFMR_LF-H84P	PE-68678	1
TP1, TP2, TP3, TP4, TP	0.8mm round SMD Pad	TP_SMD_800	TP_SMD_0.8MM	7







View from Front side (Scale 2:1)



A

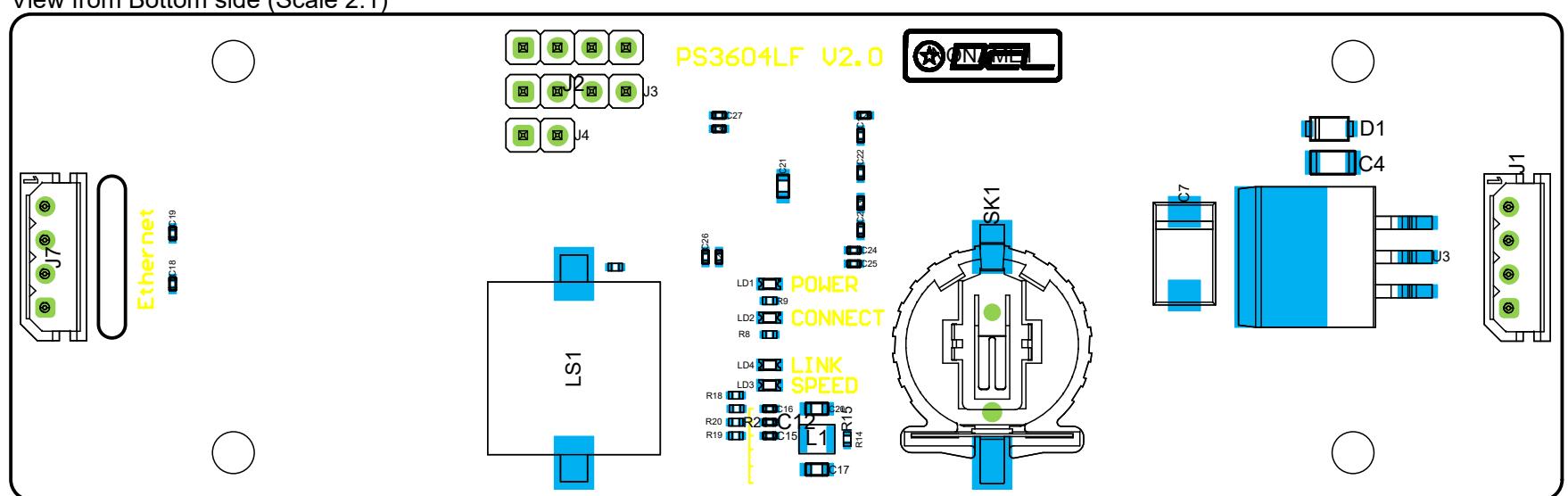
B

C

D

E

View from Bottom side (Scale 2:1)



A

B

C

D

E