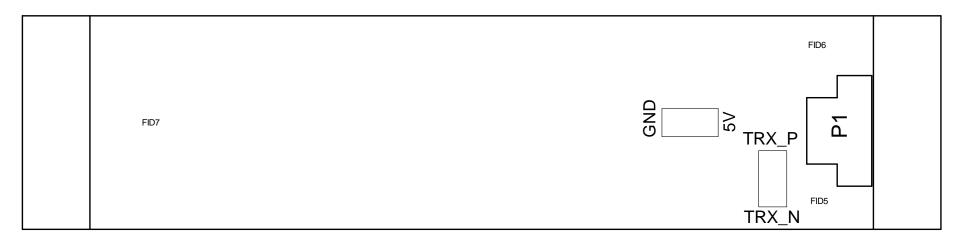
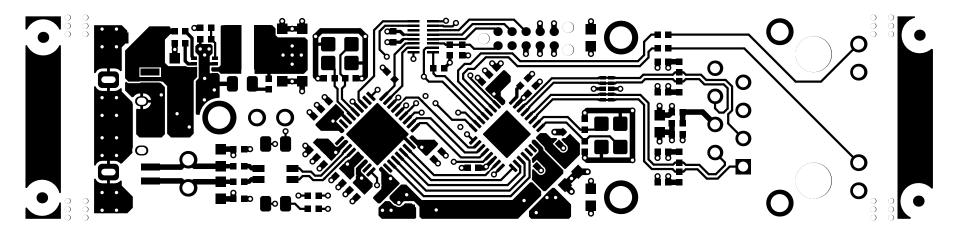


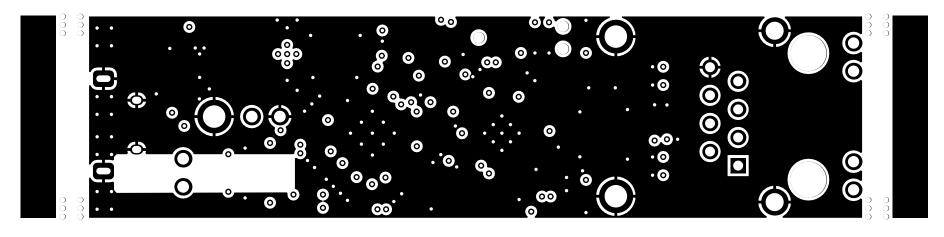
ASSEMBLY TOP



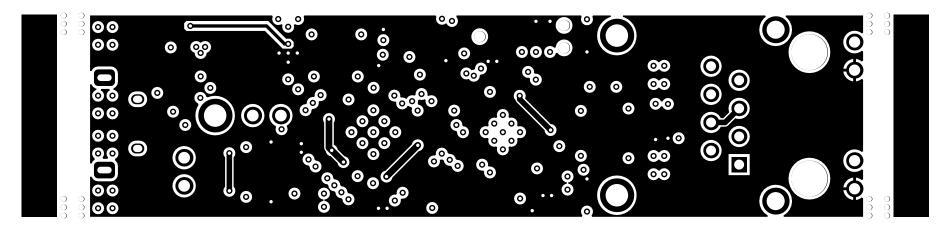
ASSEMBLY BOTTOM (MIRRORED)



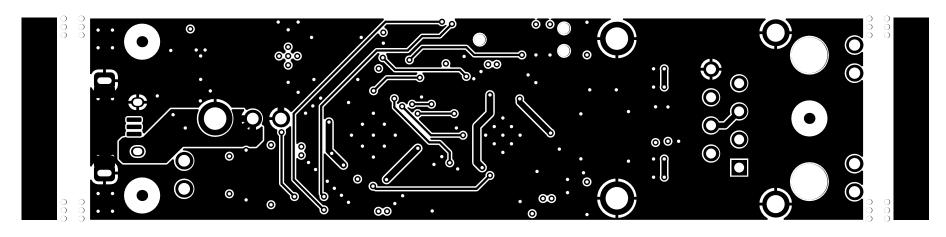
LAYER1 - TOP



LAYER 2 - GROUND PLANE



LAYER 3 - POWER PLANE



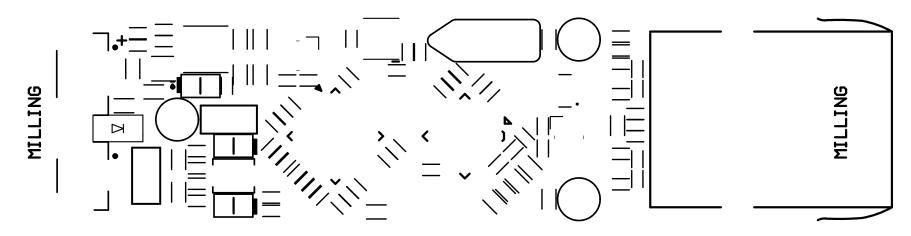
LAYER 4 - BOTTOM LAYER

455-4362-ND

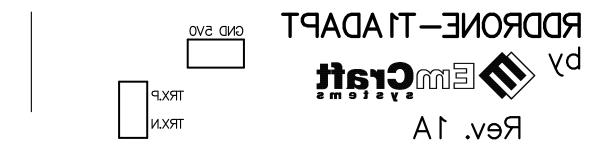
455-1592-ND

455-4362-ND

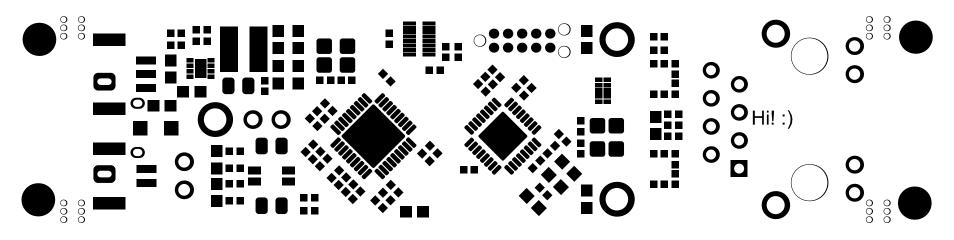
455-1593-ND



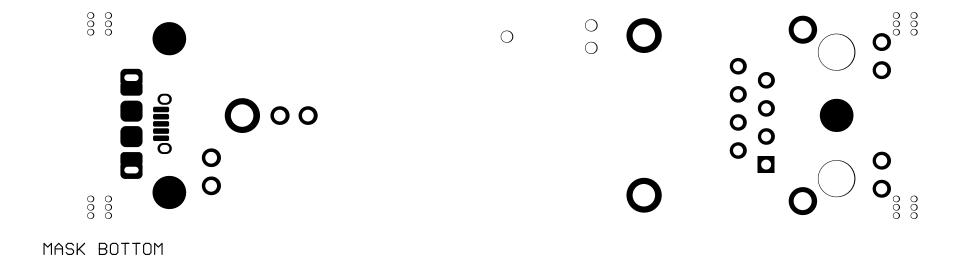
SILKSCREEN TOP



SILKSCREEN BOTTOM



MASK TOP



Description	Quantity	ManType	Manufacturer	Designator	Notes
CAP CER 10UF 6.3V X5R 0603	14		Würth Elektronik	C1, C4, C6, C12, C15, C41, C42, C46, C51, C52, C56, C57, C61,	
				C66	
0.1 uF 6.3V X5R		C1005X5R0J104K	TDK Corporation	C2, C3, C5, C10, C11, C13, C14, C16, C20, C23, C24, C25, C26,	Option:
				C28, C29, C30, C31, C32, C33, C35, C36, C37	C1005X5R0J104K
CAP CER 10UF 10V 20% X5R 0402	6	CL05A106MP5NUNC	SAMSUNG	C7, C17, C18, C21, C27, C38	
CAP CER 16PF 50V NPO 0402	4	CC0402JRNPO9BN160	YAGEO	C8, C9, C19, C22	
CAP CER 1UF 10V X5R 0402	1	885012105012	Würth Elektronik	C34	
4.7nF	1	CO402C472K5RACTU	KEMET	C39	DNP
TVS DIODE 5V 9.2V CFP3	1	PTVS5V0S1UR,115	Nexperia USA Inc.	D4	
	1	TC2050-IDC	Tag-Connect LLC	DBG1	DNP
LED RED CLEAR 0805 SMD	1	150080RS75000	Würth Elektronik	DS1	
LED GREEN CLEAR 0805 SMD	1	150080GS75000	Würth Elektronik	DS2	
LED BLUE CLEAR 0805 SMD	1	150080BS75000	Würth Elektronik	DS3	
	7			FID1, FID2, FID3, FID4, FID5, FID6, FID7	DNP
WE-RJ45 LAN Transformer, THT, 10/100	1	7499011222A	Würth Elektronik	J1	
Base-T, Port 1x1, Tab Down		7499011222A	vvui tii Elekti Ollik	J1	
Connector Header Surface Mount, Right	1	SM03B-GHS-TB(LF)(SN)	JST Sales America Inc.	J2	
Angle 3 position 0.049" (1.25mm)		20/103B-GH2-1B(FL)(21/1)	JST SaleS AMERICA INC.	JZ	
Connector Header Surface Mount, Right	1	SM02B-GHS-TB(LF)(SN)	JST Sales America Inc.	J3	
Angle 2 position 0.049" (1.25mm)	ı	SIVIUZB-GHS-TB(LF)(SIV)	JST Sales Affierica Inc.	13	
CONN HEADER VERT 2POS 2.54MM	2	61300211121	Würth Elektronik	J5, J7	DNP
FIXED IND 1UH 2A 25 MOHM SMD	1	TYS40181R0N-10	Laird-Signal Integrity Products	L1	
FERRITE BEAD 120 OHM 0402 1LN	6	7427927311	Würth Elektronik	L2, L3, L5, L6, L7, L8	
TH-0.6-3.0-M1.4 /					
https://www.mac8japan.com/products/	3	TH-0.6-3.0-M1.4	Mac8	MH1, MH2, MH3	DNP
458					
Conn Micro USB Type AB RCP 5 POS					
0.65mm Solder RA SMD 5 Terminal 1 Port	1	629105150921	Würth Elektronik	P1	
T/R					
RES 549K OHM 1/16W 1% 0402	1	RC1005F5493CS	Samsung	R1	
RES 10K OHM 1/16W 5% 0402	4	RMCF0402JT10K0	Stackpole Electronics Inc	R2, R3, R13, R25	
RES 4.7K OHM 5% 1/16W 0402	3	RMCF0402JT4K70	STACKPOLE	R4, R20, R35	
RES 121K OHM 1/16W 1% 0402	1	RC1005F1213CS	Samsung	R5	
RES SMD 100K OHM 5% 1/16W 0402	1	RMCF0402JT100K	Vishay Dale	R7	
RESISTOR TF 270 OHM 1% 0.0625W 0402	2	RMCF0402FT270R	Stackpole Electronics Inc	R8, R18	
RESISTOR TF 49.9 OHM 1% 0.0625W 0402	4	RMCF0402FT49R9	Stackpole Electronics Inc	R10, R12, R16, R17	
RES 1K24 OHM 1/16W 5% 0402	1	RC0402FR-071K24L	YAGEO	R11	
RES 100K OHM 1/16W 5% 0402 SMD	1	ERJ-2GEJ104X	PANASONIC	R14	DNP
RES SMD 1.02K OHM 1% 1/16W 0402	2	RC0402FR-071K02L	YAGEO	R15, R19	DNP
200uH @ 100kHz 2 Line Common Mode					
	1	ACT1210L-201-2P-TL00	TDK Corporation	TR1	
Choke Surface Mount 70mA DCR 5.50hm					
IC MCU 32BIT 16KB FLASH 16XSON	1	LPC812M101JTB16X	NXP USA Inc.	U1	
10/100 Fast Ethernet PHY with MII, RMII			Duna dagun Limeita d	112	
and RevMII support	1	BCM5241A1IMLGT	Broadcom Limited	U2	
IC TRANSCEIVER FULL 1/1 36HVQFN	1	TJA1101AHN/0Z	NXP USA Inc.	U3	
TVS DIODE 3.3V 5V DFN2510A-10	1	PUSB3AB4Z	Nexperia USA Inc.	U4	
1.6A DC/DC Step Down Converter in 2x2		TDC/20/0DCCD		ue.	
SON Package	1	TPS62060DSGR	Texas Instruments	U5	
CRYSTAL 25.0000MHZ 18PF SMD	2	403C35D25M00000	CTS-Frequency Controls	X1, X2	