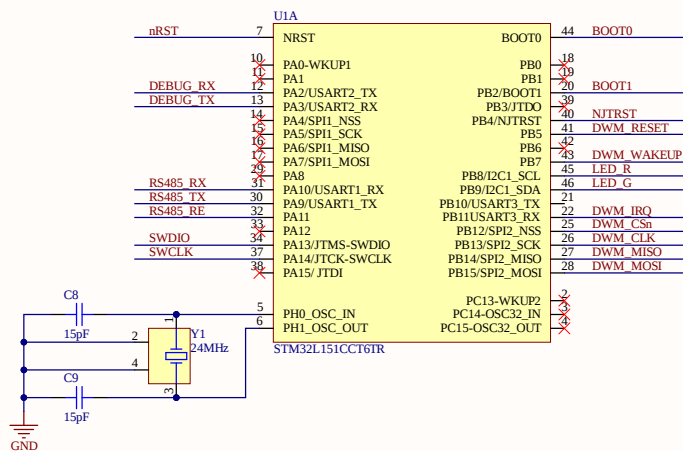
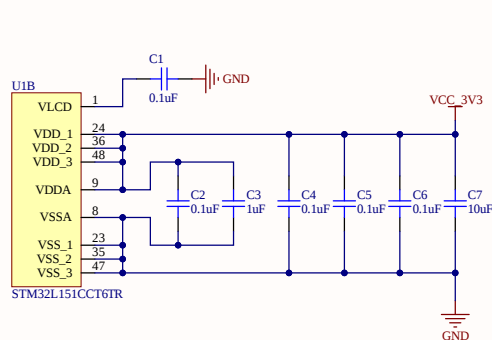
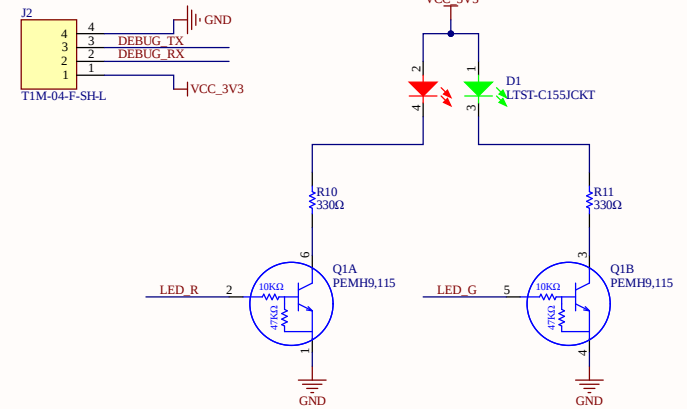
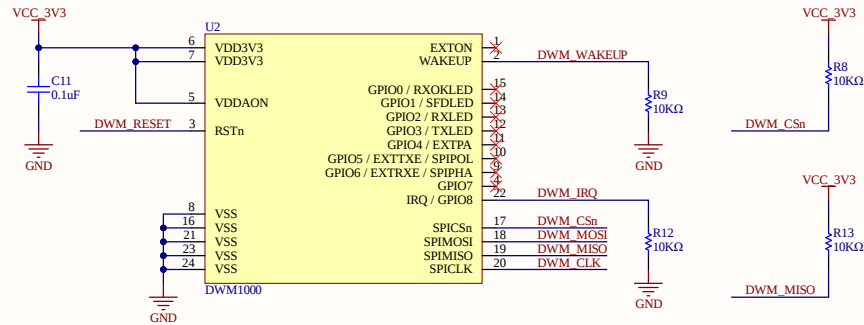
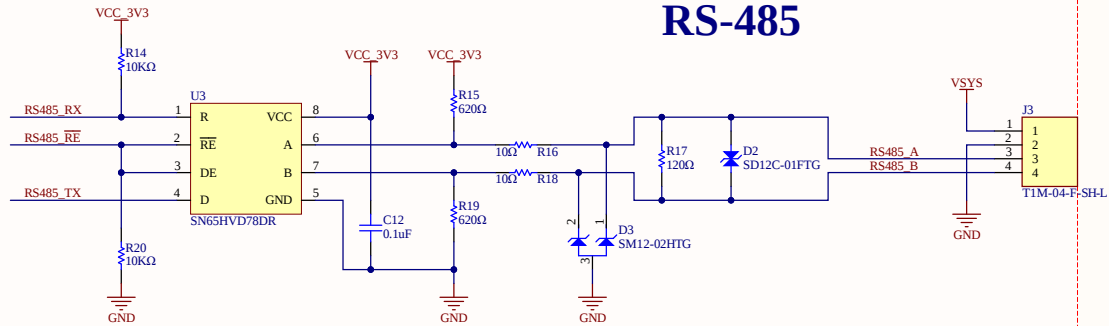


TITLE:		Anchor Board	
DOCUMENT:		01 - MCU.SchDoc	
SIZE:	B	SHEET:	1 of 4
DATE:		16-12-2021 12:00:00	REVISION: V2.0

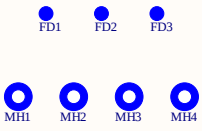
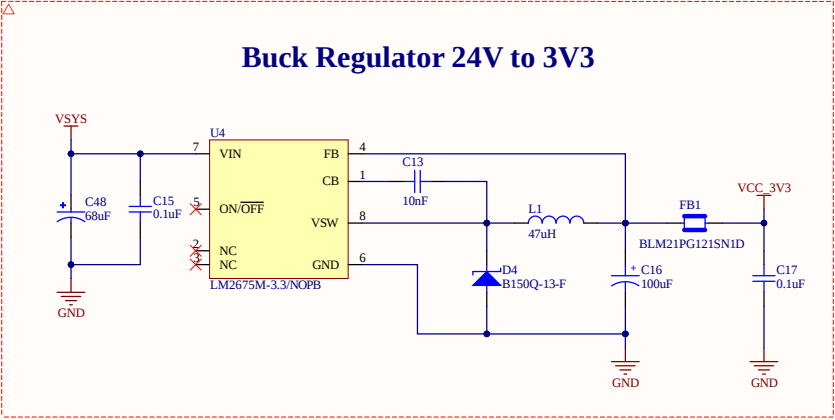
DWM Module



RS-485



TITLE:	Anchor Board		
DOCUMENT:	02 - Interfaces.SchDoc		
SIZE:	B	SHEET: 2 of 3	Raylogic Ltd.
DATE:	04-08-2021	12:00:00	REVISION: V0.1



TITLE:		Anchor Board	
DOCUMENT:		03 - Power Supply.SchDoc	
SIZE:	B	SHEET:	3 of 3
DATE:	04-08-2021	12:00:00	REVISION: V0.1
		Raylogic Ltd.	

1

2

3

4

A

Changes from Previous Revision 1.0 for Revision 2.0

C48 MPN Changed
Headers chanhged to JST (J1 and J2)
Header footprint changed from 2.54 to 1.57 for J3
DWM1000 pulled closer to MCU
Silkscreen Tect edited according to new requirements (Company names)
BOOT Pins are pulled down
RX TX for RS485interchanged

B

C

D

A

B

C

D

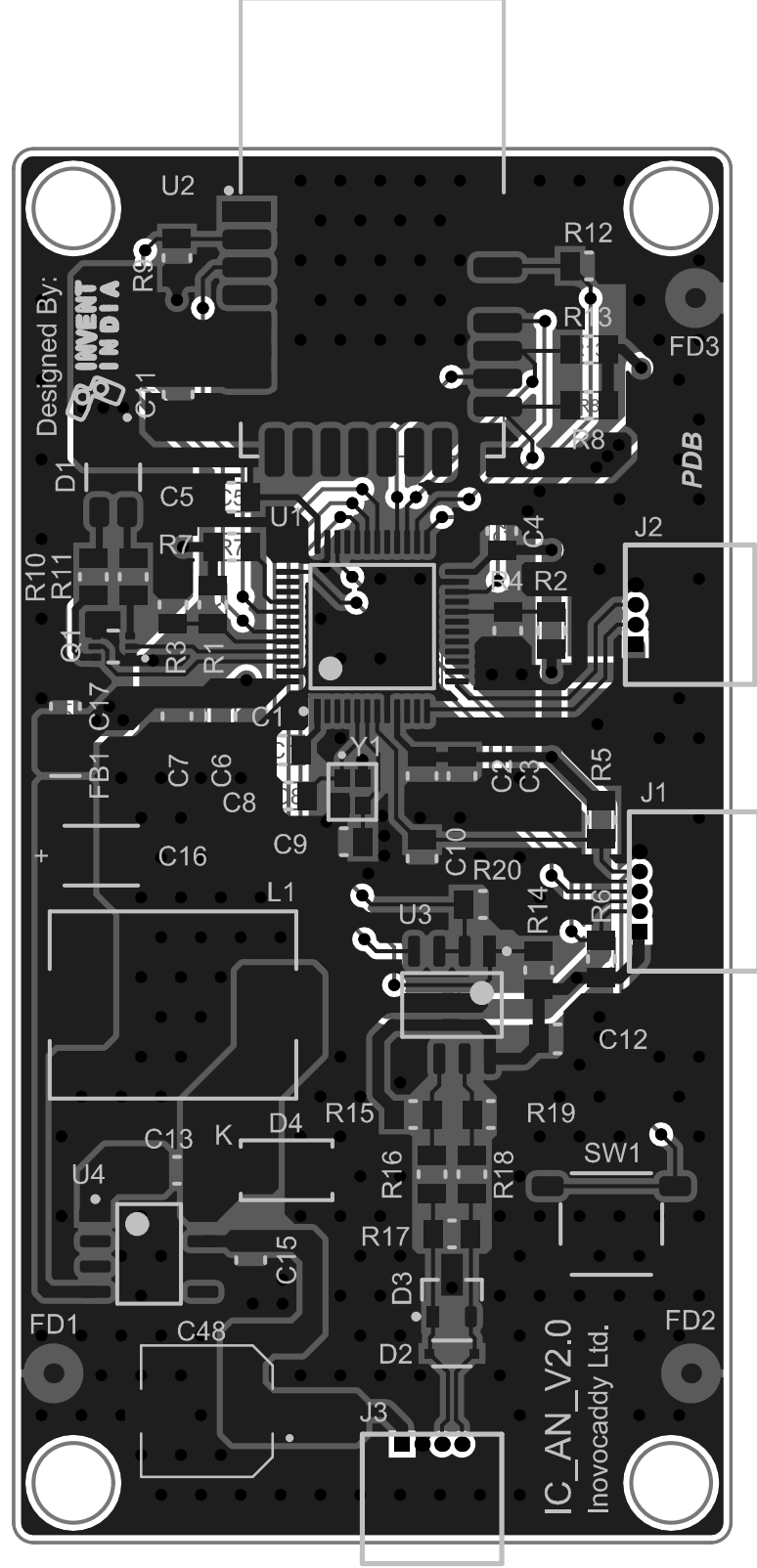
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A4			
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1

2

3

4



Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP CER 0.1UF 25V X7R 0805	C1, C2, C4, C5, C6, C10, C11, C12, C15, C17	CAPC2012X94N	08053C104KAT2A	10
1uF	CAP CER 1UF 10V X7R 0805	C3	CAPC2012X135N	VJ0805Y105KXQTW1B C	1
10uF	CAP CER 10UF 25V X5R 0805	C7	CAPC2012X145N	TMK212BBJ106MG-T	1
15pF	CAP CER 15PF 50V C0G/NPO 0805	C8, C9	CAPC2012X135N	08055A150JAT2A	2
10nF	CAP CER 10000PF 50V X7R 0805	C13	CAPC2012X135N	CC0805KRX7R9BB103	1
100uF	CAP TANT 100UF 20% 10V 1411	C16	CAPMP3528X210N	TAJB107M010RNJ	1
68uF	68µF 50V Aluminum Electrolytic Capacitors Radial, Can - SMD 680mOhm @ 100kHz 2000 Hrs @ 105Å°C	C48	CAP_EEEFN1H680XL	EEEFN1H680XL	1
LTST-C155JCKT	LED GREEN/RED CLEAR CHIP SMD	D1	LED_LTST-C155JCKT	LTST-C155JCKT	1
SD12C-01FTG	TVS DIODE 12VWM 23VC SOD323	D2	SOD257X114-2N-BI	SD12C-01FTG	1
SM12-02HTG	TVS DIODE 12VWM 22.5VC SOT23-3	D3	SOT95P237X112-3N	SM12-02HTG	1
B150Q-13-F	DIODE SCHOTTKY 50V 1A SMA	D4	DIOM4325X240N	B150Q-13-F	1
BLM21PG121SN1D	FERRITE BEAD 120 OHM 0805 1LN	FB1	INDC2012X105N	BLM21PG121SN1D	1
T1M-05-F-SH-L	CONN 5PIN 1MM FEMALE	J1	T1M-05-F-SH-L	T1M-05-F-SH-L	1
T1M-04-F-SH-L	CONN 4PIN FEMALE 1MM	J2, J3	T1M-04-F-SH-L	Component_1	2
47uH	FIXED IND 47UH 1.8A 140MOHM SMD	L1	IND_DO3316P	DO3316P-473MLD	1
PEMH9,115	TRANS PREBIAS 2NPN 50V SOT666	Q1	SOTFL50P160X60-6N	PEMH9,115	1
DNP	RES SMD 10K OHM 5% 1/8W 0805	R1, R2, R7	RESC2012X60N	RC0805JR-0710KL	3
10KΩ	RES SMD 10K OHM 5% 1/8W 0805	R3, R4, R5, R6, R8, R9, R12, R13, R14, R20	RESC2012X60N	RC0805JR-0710KL	10
330Ω	RES SMD 330 OHM 5% 1/8W 0805	R10, R11	RESC2012X60N	RC0805JR-07330RL	2
620Ω	RES SMD 620 OHM 5% 1/8W 0805	R15, R19	RESC2012X60N	RC0805JR-07620RL	2
10Ω	RES SMD 10 OHM 1% 1/8W 0805	R16, R18	RESC2012X60N	AF0805FR-0710RL	2
120Ω	RES SMD 120 OHM 5% 1/8W 0805	R17	RESC2012X60N	AC0805JR-07120RL	1
PTS525SM15SMTR2LFS	SWITCH TACTILE SPST- NO 0.02A 15V	SW1	SW_PTS525SM15SMT R2LFS	PTS525SM15SMTR2LFS	1
STM32L151CCT6TR	IC MCU 32BIT 256KB FLASH 48LQFP	U1	QFP50P900X900X160- 48N	STM32L151CCT6TR	1
DWM1000	RF Modules UWB Transceiver IC	U2	MOD_DWM1000	DWM1000	1
SN65HVD78DR	IC TRANSCEIVER HALF 1/1 8SOIC	U3	SOIC127P600X175-8N	SN65HVD78DR	1
LM2675M-3.3/NOPB	IC REG BUCK 3.3V 1A 8SOIC	U4	SOIC127P600X175-8N	LM2675M-3.3/NOPB	1
24MHz	CRYSTAL 24.0000MHZ 10PF SMD	Y1	XTAL_ECX-1637Q	ECS-240-10-37Q-AES- TR	1