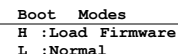
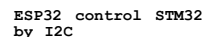


D



C

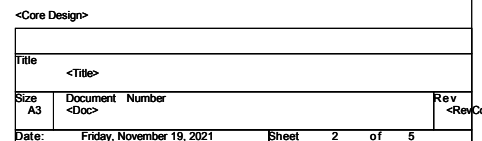


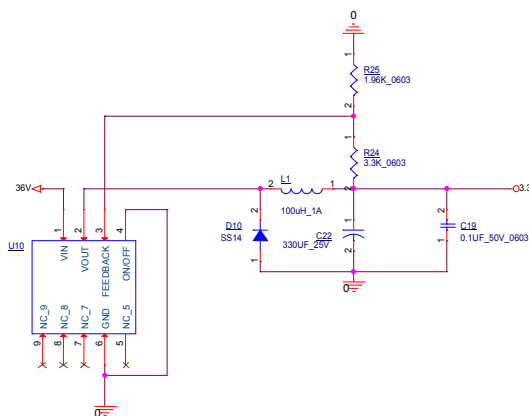
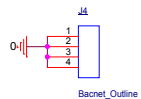
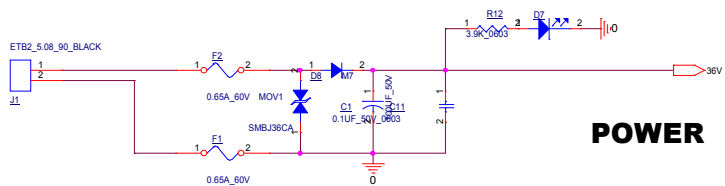
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A

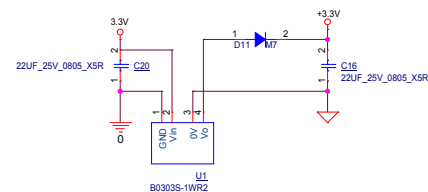
Date: Wednesday, December 16, 2021				Sheet 1 of 5	
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1





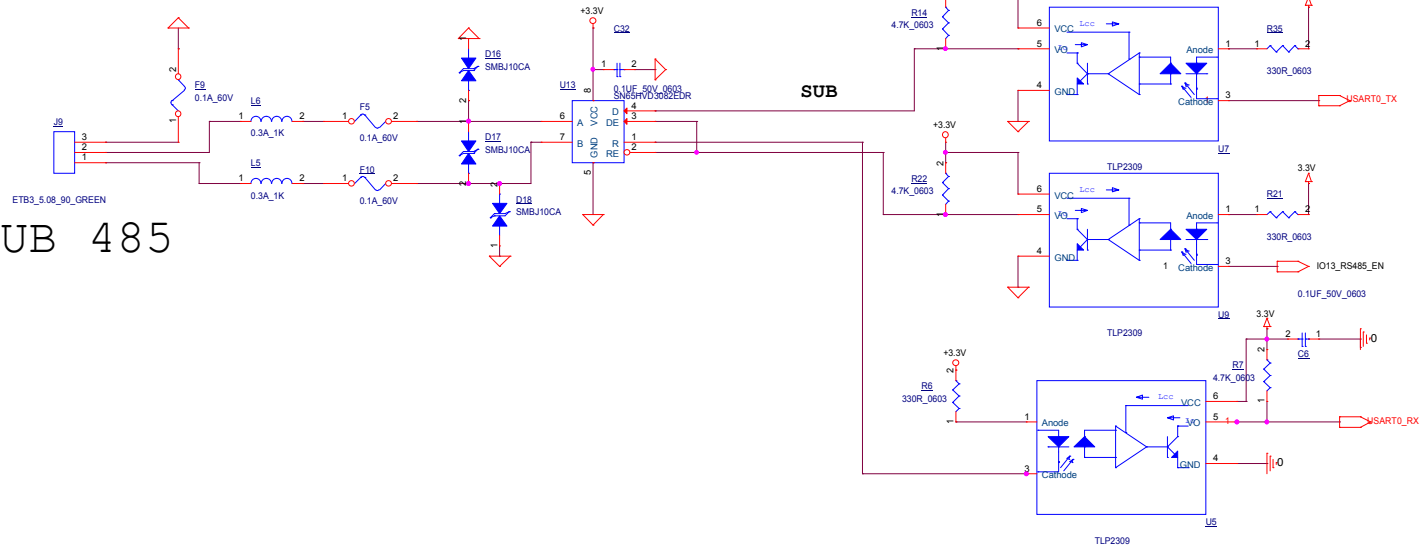
3.3V Power Supply



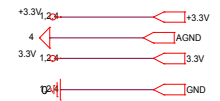
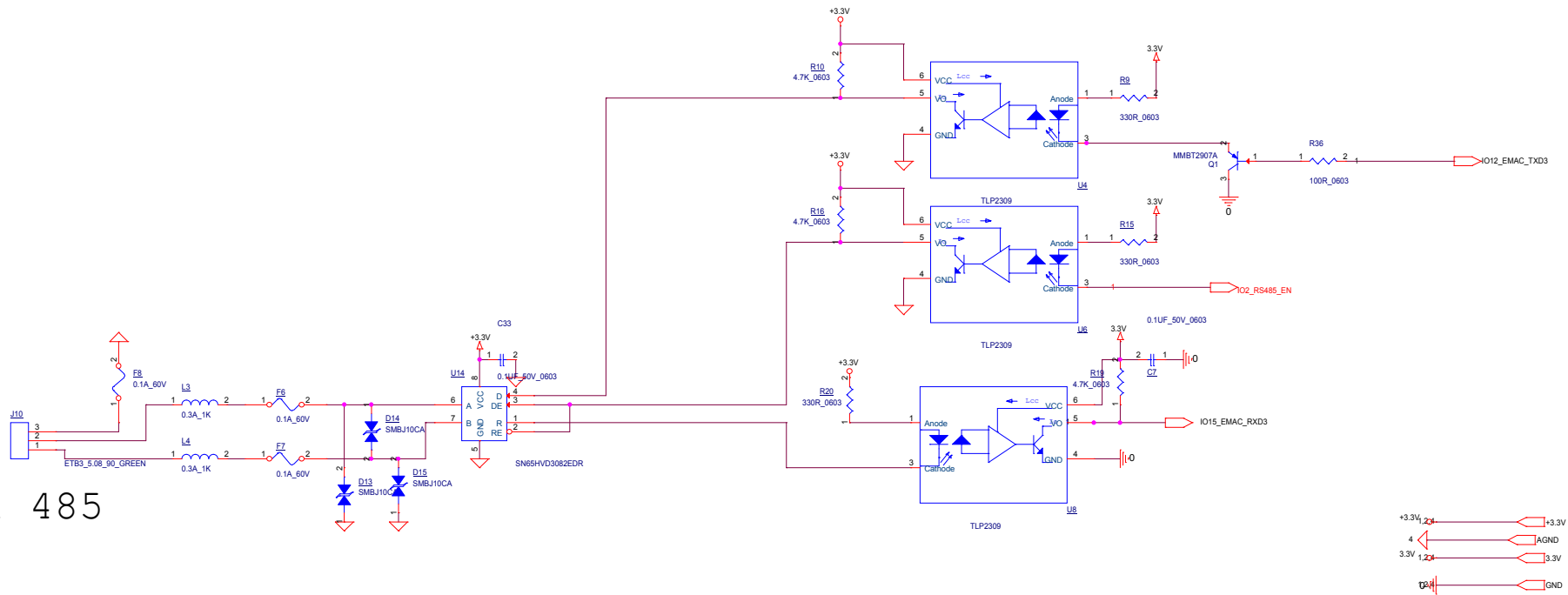
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File		
Bacnet_Router		
Size	Document Number	Rev
C	POWER	03
Date: Monday, November 08, 2021 Sheet 3 of 5		

SUB 485



Main 485



<Core Design>			
File	Bacnet_Router		
Size	Document Number	Rev	
C	SUB_RS485	03	
Date:	Monday, December 06, 2021	Sheet	4 of 5

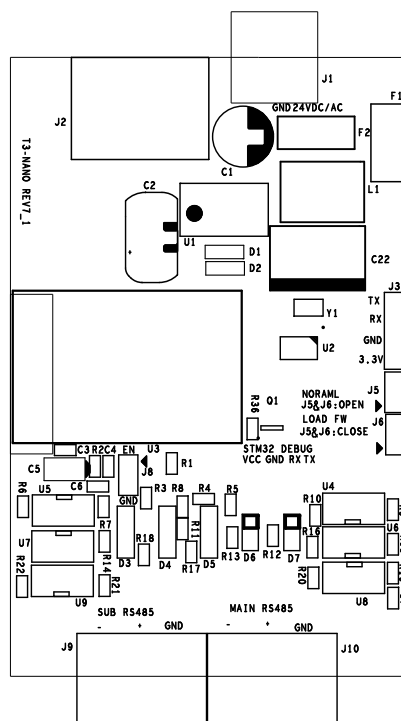
REV1:

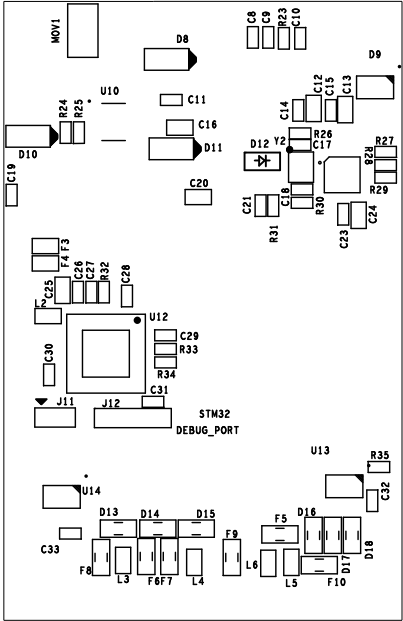
Done: copy from Sater ,add Main 485

REV7 :

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TBD: add STM32F030 to drive LEDs by I2C or UART .
TBD: fix RJ45 peripheral circuit .
TBD: add I2C bus RTC IC to ESP32 .
TBD: Delete RS485 waveform circuit .
TBD: Delete 3.3v&5.0v power supply circuit , change LM2576 output to 3.3V .
TBD: Modify isolation power module from 5V to 3.3V .
TBD: fix U13 power supply .
TBD: delete J7 , add Q1 and R36 .change stm32 I2C pins
```

Title Bacnet_Router			
Size A	Document Number Revision		Rev 03
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T3 Nano REV7.1 BOM

Itm	Qty	Value	part number	Part Reference	PCB Footprint	Description
1	1	100UF 50V	100uF 50V 8*12	C1	cap8x11 100uf	8X12
2	1	0.22F_5.5V_V	0.22F_5.5V_V	C2	SUPERCAP1F_V	法拉电容 纽扣式 5.5V 0.22F V型 5MM脚距 特加特数码专营店
3	16	0.1UF_50V_0603	0603B104K500NT	C3 C6 C7 C9 C11 C14 C15 C19 C23 C26 C28 C29 C30 C31 C32 C33	CAPC1608X55N_0603	
4	4	1UF 50V 0603	CL10A105KB8NNNC	C4 C8 C21 C27	CAPC1608X55N_0603	
5	1	100UF 6.3V 3528	TA1B107M006RNT	C5	SM TANT	
6	1	0.01UF 50V 0603	CL10B1031B8NNNC	C10	CAPC1608X55N_0603	
7	3	10UF 25V	0805F106M250NT	C12 C13 C24	capc2013x100n 0805	
8	2	22UF 25V 0805 X5R	0805X226M250NT	C16 C20	capc2013x100n 0805	
9	2	18PF 50V 0603	CL10C1801B8NNNC	C17 C18	CAPC1608X55N_0603	
10	1	330UF 25V	330uF 25V 8*12 Horizontal	C22	cap_pitch3 5 dia8 5h12 5	
11	1	10UF 0805	CL21B106K00NNN	C25	capc2013x100n 0805	
12	2	SMF110CA	SMF110CA	D1 D2	SOD 123F	V(RWM)=10V
13	3	LED2X5X7 RED&Green	LED2X5X7 RED&Green	D3 D4 D5	LED2X5X7 RED GREEN	
14	1	Rec_Red_DIP_LED	Rec_Red_DIP_LED	D6	LED_REC_5X2	5x2mm REC Type, DIP Red LED Lamp
15	1	Rec_Green_DIP_LED	Rec_Green_DIP_LED	D7	LED_REC_5X2	5x2mm REC Type, DIP Green LED Lamp
16	2	M7	M7	D8 D11	SMA	
17	1	SLVU2.8-4-TP	SLVU2.8-4-TP	D9	SOIC127P594X363-8N	
18	1	SS14	SS14	D10	SMA	V(RMS)=40V
19	1	LL4148	LL4148	D12	LL4148	Fast Switching Diodes
20	6	SMB110CA	SMB110CA	D13 D14 D15 D16 D17 D18	CAPC3216X130N 1206	V(RWM)=10V
21	2	0.65A 60V	RL60-065	F1 F2	FUSE 200	
22	2	0.1A 15V	MF-PSMF010X-2	F3 F4	capc2013x100n 0805	0.1A 15V 0805
23	6	0.1A 60V	JK-NSMD010	F5 F6 F7 F8 F9 F10	CAPC3216X130N 1206	
24	1	ETB2_5.08_90_BLACK	2EDGR_5.08_2P_BLACK	J1	ETB2INCH_90	Pitch=5.08mm, single, male, 90° Black Pluggable
25	1	KRJ-146WDFKNL	KRJ-146WDFKNL	J2	LU1S041XLF	KRJ-146WDFKNL no led 90°, NC2000, RJ45 东莞市科优达电子
26	2	ETB3_5.08_90_GREEN	2EDGR_5.08_3P_GREEN	J9 J10	ETB3INCH_90	Pitch=5.08mm, single, male, 90° Green Pluggable
27	1	100uH 1A	100uH 1A Horizontal	L1	l Pitch4 6 Dia8XH10 5	0709 1A 100UH
28	1	47uH	SDF12012T470KTF	L2	capc2013x100n 0805	
29	4	0.3A 1K	GZ2012U102TF	L3 L4 L5 L6	capc2013x100n 0805	0.3A 1K 100MHZ
30	1	SMB136CA	SMB136CA	MOV1	SM MOV	V(RWM)=36V
31	1	MMBT2907A	MMBT2907A	Q1	SOT95P230X124-3N	
32	2	0R 0603	RC0603FR-070RL	R1 R5	CAPC1608X55N_0603	
33	7	10K 0603	0603WAF1001T5E	R2 R26 R28 R29 R30 R31 R34	CAPC1608X55N_0603	
34	3	100R 0603	0603WAF1000T5E	R3 R4 R8	CAPC1608X55N_0603	
35	7	330R 0603	0603WAF0331T5E	R6 R9 R13 R15 R20 R21 R35	CAPC1608X55N_0603	
36	6	4.7K 0603	0603WAF0472T5E	R7 R10 R14 R16 R19 R22	CAPC1608X55N_0603	
37	3	1K 0603	0603WAF0102T5E	R11 R17 R18	CAPC1608X55N_0603	
38	1	3.9K 0603	0603WAF3901T5E	R12	CAPC1608X55N_0603	
39	1	1M 0603	0603WAF0105T5E	R23	CAPC1608X55N_0603	
40	1	3.3K 0603	0603WAF1332T5E	R24	CAPC1608X55N_0603	
41	1	1.96K 0603	0603WAF1961T5E	R25	CAPC1608X55N_0603	

42	1	6.19K 0603	0603WAF6191T5E	R27	CAPC1608X55N 0603	
43	2	100K 0603	0603WAT0104T5E	R32 R33	CAPC1608X55N 0603	
44	1	100R 0603	0603WAT0104T5E	R36	CAPC1608X55N 0603	
45	1	B0303S-1WR2	B0303S-1WR2	U1	B0303S	
46	1	8563T	PCF8563T	U2	SOIC127P594X363-8N	
47	1	ESP32-WROVER-B	ESP32-WROVER-B	U3	ESP32 B	
48	6	TLP2309	TLP2309	U4 U5 U6 U7 U8 U9	TLP2362	photocouplers
49	1	LM2576DP-ADJ	LM2576DP-ADJ	U10	SOIC127P600X175-9N	3A, 52kHz, Step-Down Switching Regulator
50	1	IP101GRI	IP101GRI	U11	vQFN32	
51	1	STM32F030C8T6	STM32F030C8T6	U12	afb50b900x900x160-48n	
52	2	SN65HVD3082EDR	SN65HVD3082EDR	U13 U14	SOIC127P594X363-8N	
53	1	32.768KHZ	Q13FC1350000200	Y1	SMD 3215 2P	FC-135 32.768KHZ 7PF 20PPM
54	1	25MHZ	X322525MOB4SI	Y2	SMD_3225_4P	YSX321SL 25MHZ 20PF 10PPM - 40~+85°C