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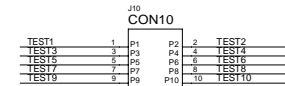
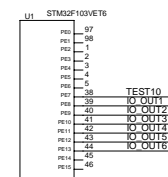
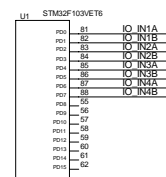
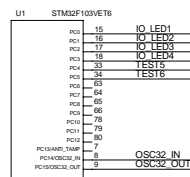
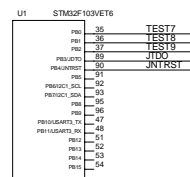
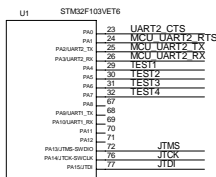
# EMC\_AE BOARD SCHEMATIC

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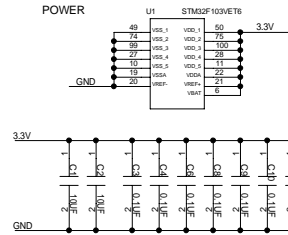
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		SIZE C	DATE 2014-05-22	CHECKED	
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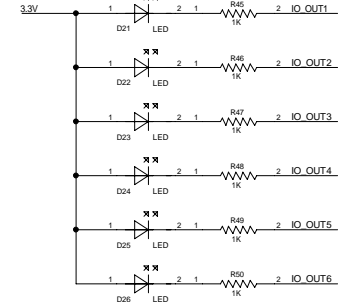
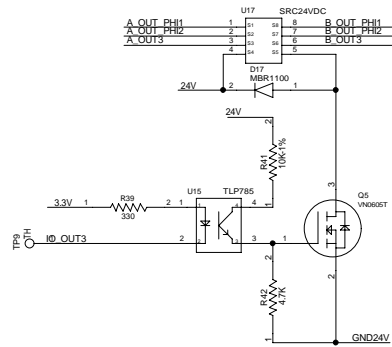
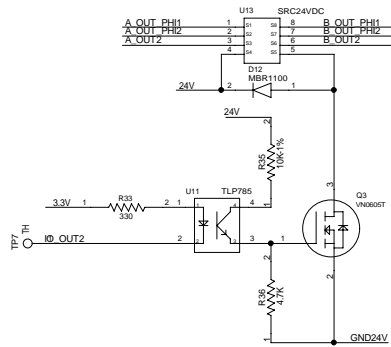
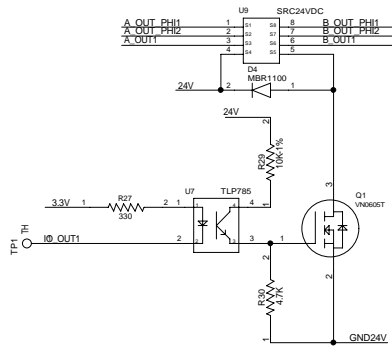
## MCU



## POWER

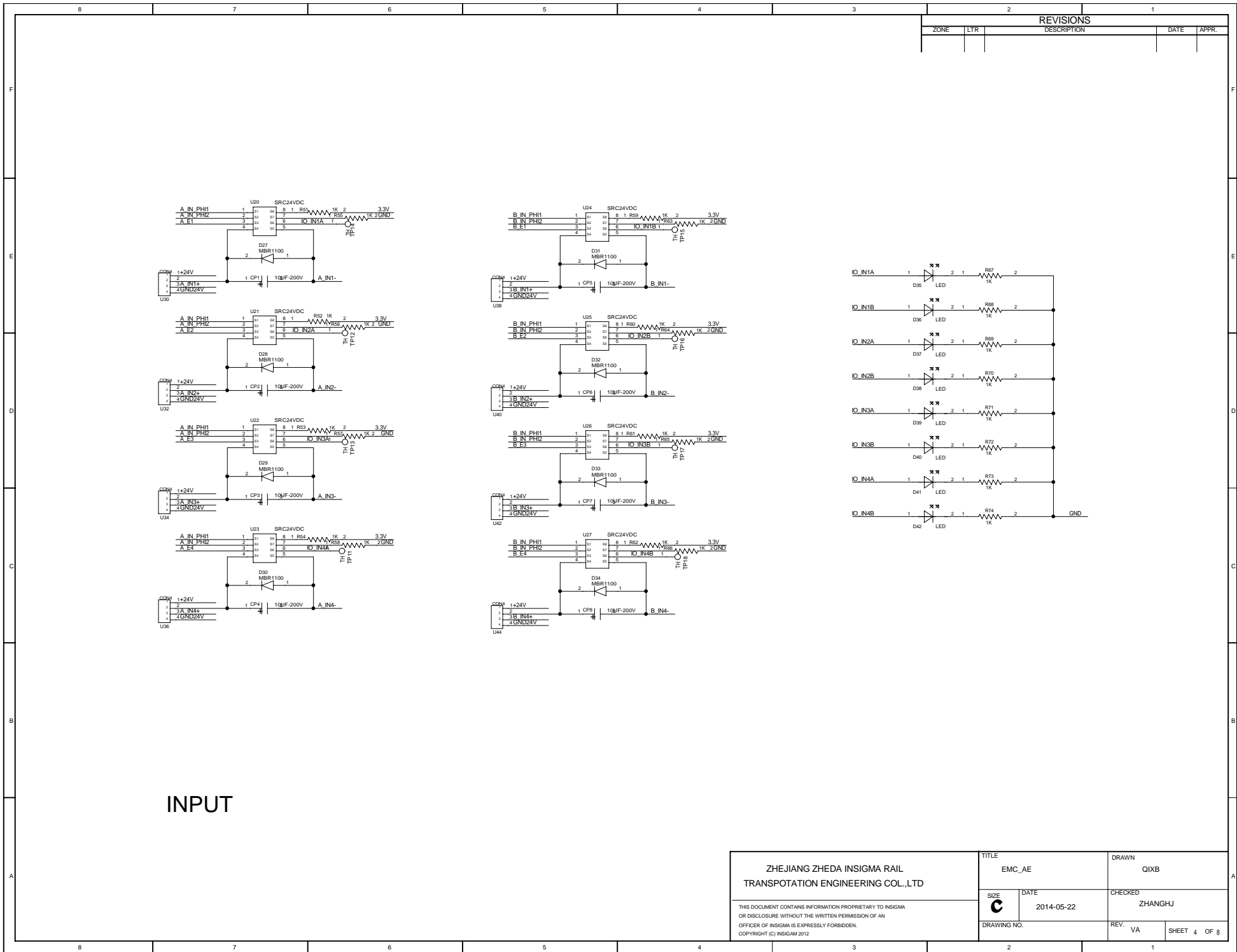


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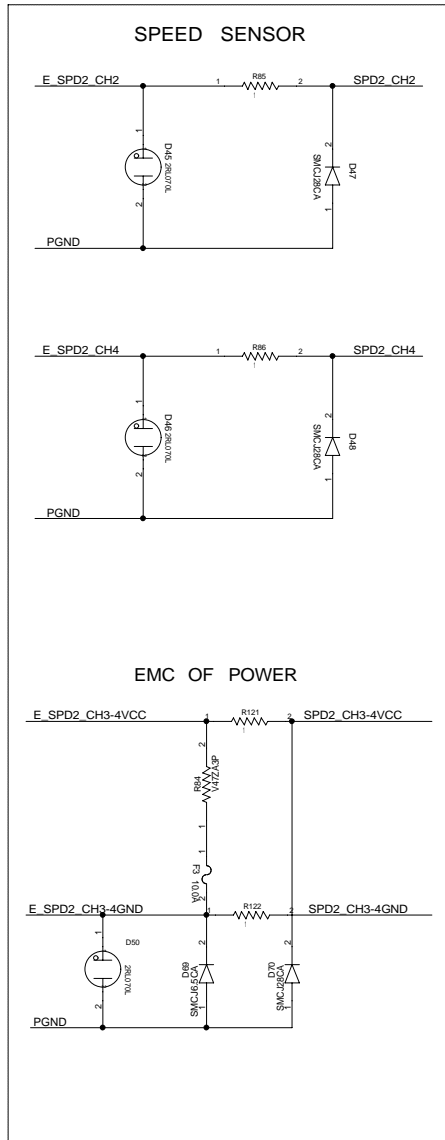
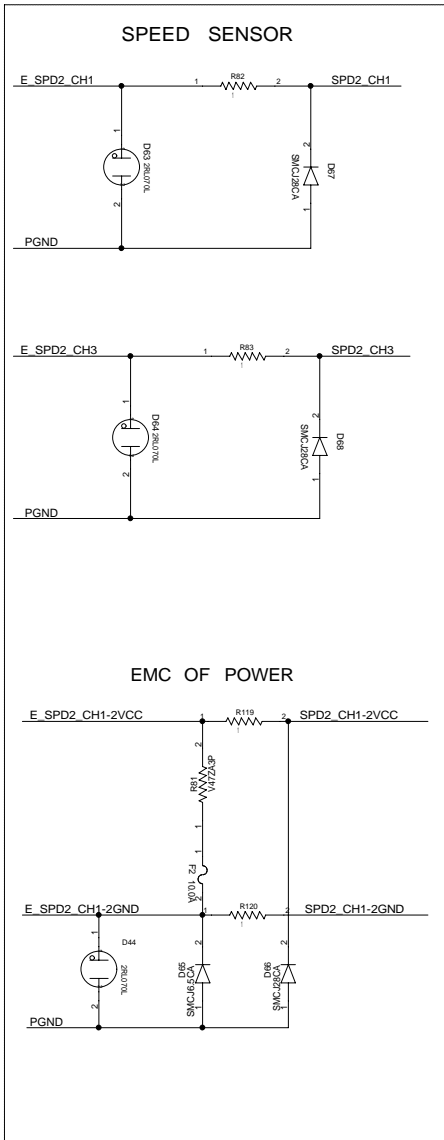
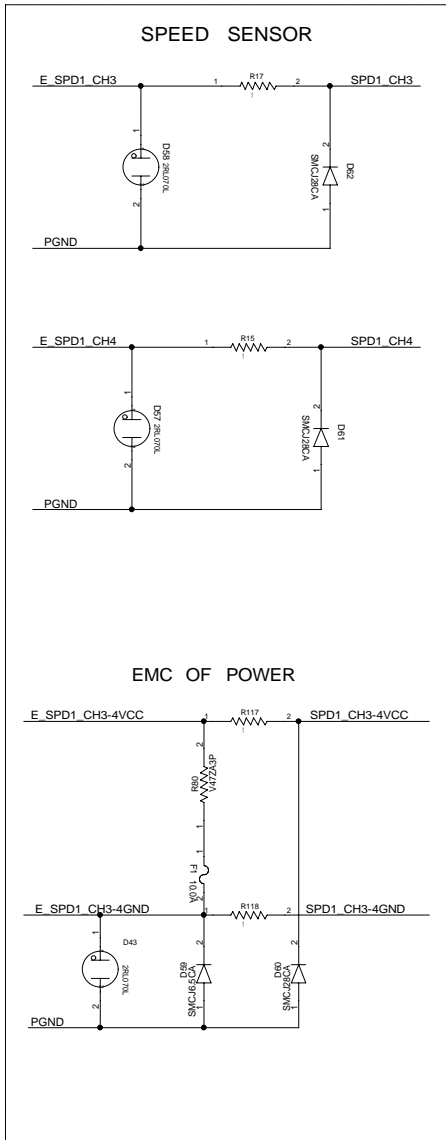
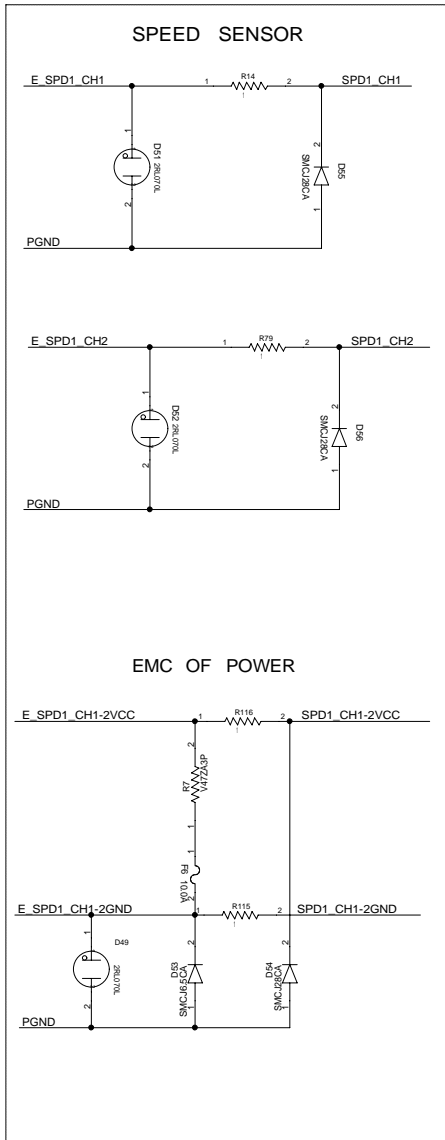


OUTPUT

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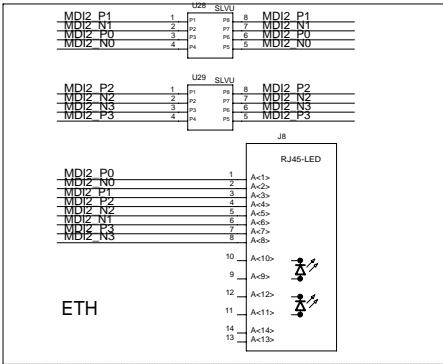
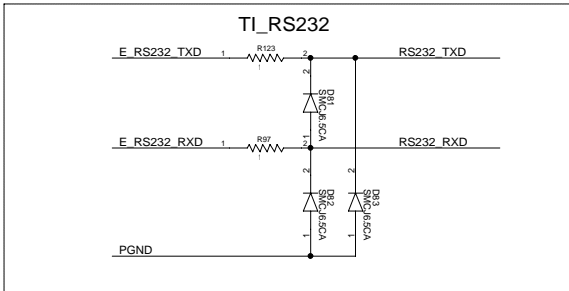
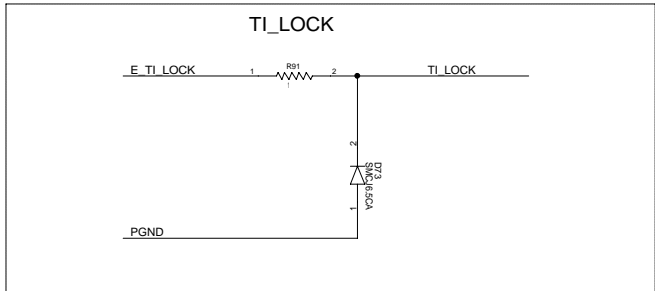
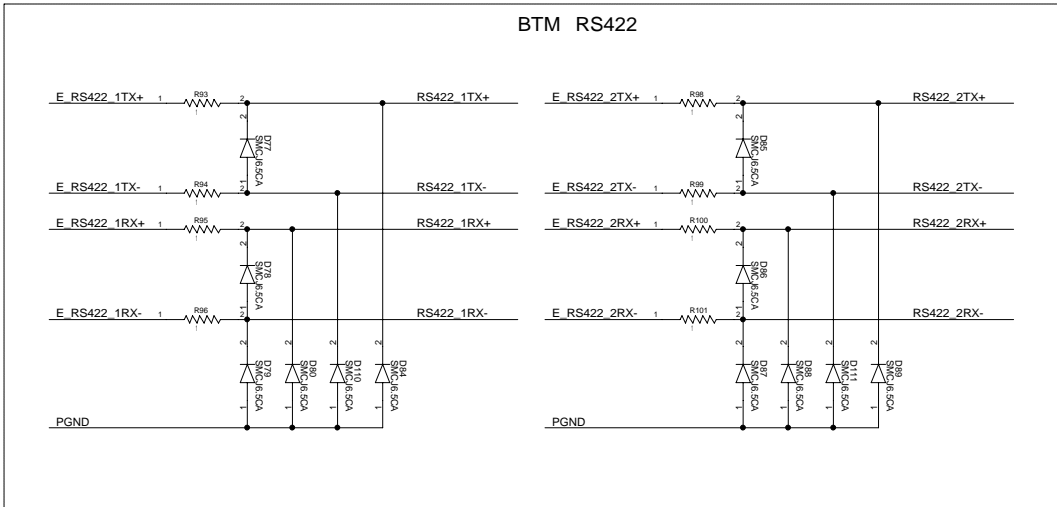
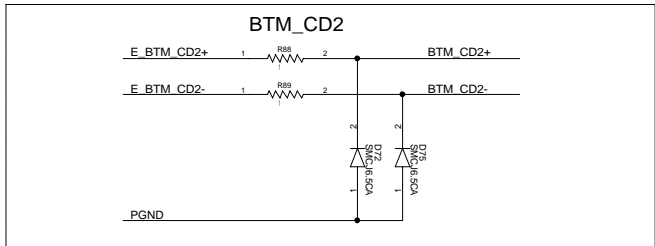
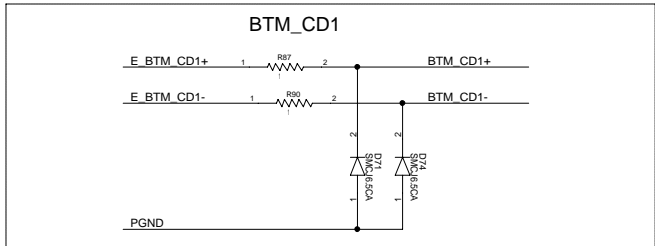
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# PULSE PROTECTION

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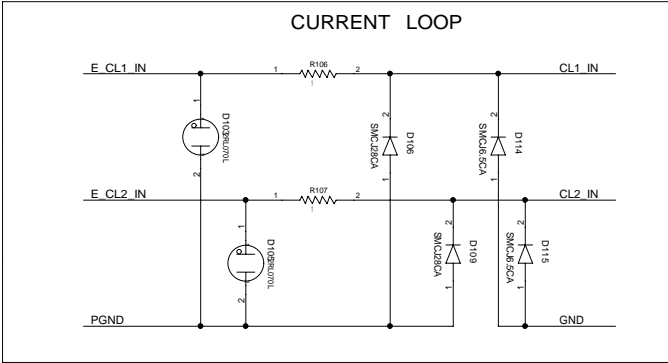
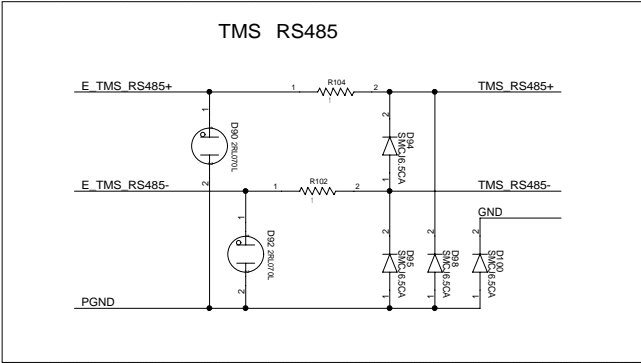
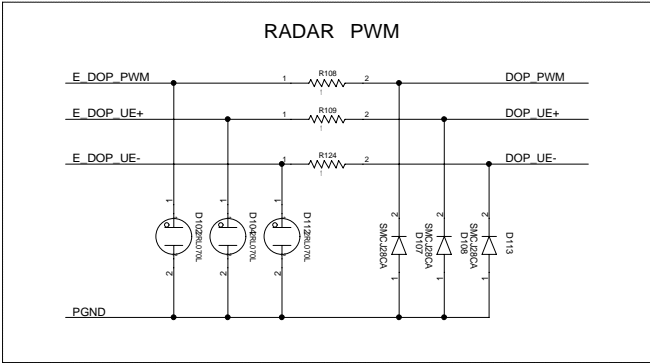
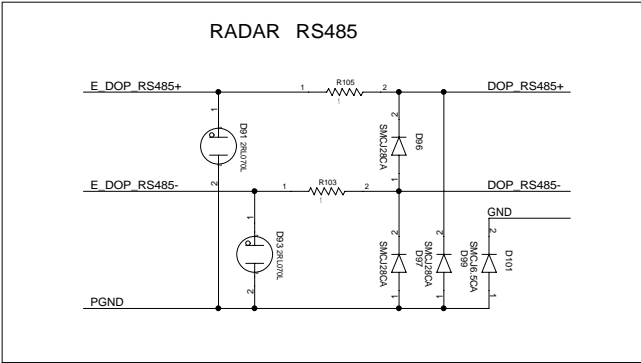
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# BTM&ETH PROTECTION

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# RADAR&TMS PROTECTION

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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPR.

UP  
IN

DOWN

UP  
OUT

DOWN

INTERFACE

E2	33	MDI2 N2
E4	34	MDI2 P2
E6	35	MDI2 N3
E8	36	RS232 TXD
E10	37	DOP UE
E12	38	DOP UE+
E14	39	YMS RS485+
E16	40	RS232 1TX+
E18	41	RS232 1TX
E20	42	RS232 2TX+
E22	43	RS232 2TX
E24	44	BTM CD1
E26	45	3.3V
E28	46	3.3V
E30	47	GND
E32	48	GND

J4 CON16X3

C2	17	MDI2 P2
C4	18	MDI2 N3
C6	19	MDI2 P1
C8	20	RS232 RXD
C10	21	DOP RS485+
C12	22	DOP PWM
C14	23	YMS RS485+
C16	24	RS232 1TX+
C18	25	RS232 1TX
C20	26	RS232 2TX+
C22	27	RS232 2TX
C24	28	BTM CD1
C26	29	3.3V
C28	30	3.3V
C30	31	GND
C32	32	GND

J4 CON16X3

A2	1	MDI2 N0
A4	2	MDI2 P3
A6	3	GND
A8	4	GND
A10	5	DOP RS485+
A12	6	DOP UE+
A14	7	CL1 IN
A16	8	CL2 IN
A18	9	BTM CD2
A20	10	BTM CD2+
A22	11	3.3V
A24	12	3.3V
A26	13	GND
A28	14	GND
A30	15	GND
A32	16	GND

J4 CON16X3

E2	33	SPD1 CH1-2GND
E4	34	SPD1 CH1-2VCC
E6	35	SPD1 CH3
E8	36	SPD1 CH3
E10	37	SPD2 CH1-2GND
E12	38	SPD2 CH1-2VCC
E14	39	SPD2 CH3
E16	40	PGND
E18	41	PGND
E20	42	PGND
E22	43	PGND
E24	44	PGND
E26	45	24V
E28	46	GND24V
E30	47	GND24V
E32	48	GND24V

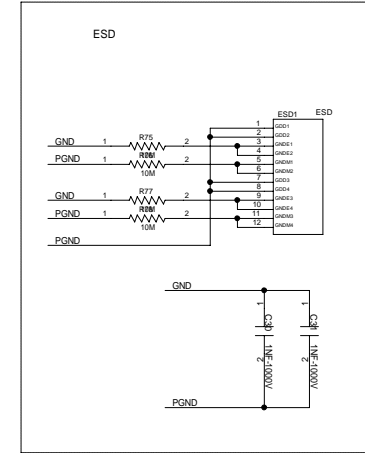
J5 CON16X3

C2	17	SPD1 CH2
C4	18	SPD1 CH3-2GND
C6	19	SPD1 CH3-2VCC
C8	20	SPD1 CH3
C10	21	SPD2 CH2
C12	22	SPD2 CH3-2GND
C14	23	SPD2 CH3-2VCC
C16	24	SPD2 CH3
C18	25	A+EMD
C20	26	B+EMD
C22	27	DB9 PIN7
C24	28	DB9 PIN7
C26	29	OUT1
C28	30	OUT2
C30	31	24V
C32	32	GND24V

J5 CON16X3

A2	1	SPD1 CH1
A4	2	SPD1 CH4
A6	3	SPD1 CH4
A8	4	SPD2 CH1
A10	5	SPD2 CH4
A12	6	SPD2 CH4
A14	7	SPD2 CH4
A16	8	A+EMD
A18	9	A+EMD
A20	10	B+EMD
A22	11	DB9 PIN6
A24	12	DB9 PIN6
A26	13	OUT1
A28	14	OUT2
A30	15	24V
A32	16	GND24V

J5 CON16X3



E2	33	A IN1+
E4	34	B IN1+
E6	35	B IN2+
E8	36	B IN2+
E10	37	A IN3+
E12	38	B IN3+
E14	39	A IN4+
E16	40	B IN4+
E18	41	A IN PH1
E20	42	A IN PH2
E22	43	A OUT1
E24	44	A OUT1
E26	45	A OUT3
E28	46	A OUT3
E30	47	A OUT PH1
E32	48	A OUT PH2

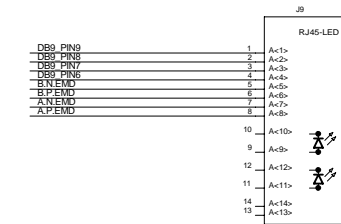
J6 CON16X3

C2	17	A E1
C4	18	B E1
C6	19	A E2
C8	20	B E2
C10	21	A E3
C12	22	B E3
C14	23	A E4
C16	24	B E4
C18	25	B IN PH1
C20	26	B IN PH2
C22	27	B OUT1
C24	28	B OUT2
C26	29	B OUT3
C28	30	B OUT4
C30	31	B OUT PH1
C32	32	B OUT PH2

J6 CON16X3

A2	1	A IN1-
A4	2	B IN1-
A6	3	A IN2-
A8	4	B IN2-
A10	5	A IN3-
A12	6	B IN3-
A14	7	A IN4-
A16	8	B IN4-
A18	9	B IN PH1
A20	10	B IN PH2
A22	11	A OUT2
A24	12	B OUT2
A26	13	A OUT5
A28	14	B OUT5
A30	15	B OUT PH1
A32	16	B OUT PH2

J6 CON16X3



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