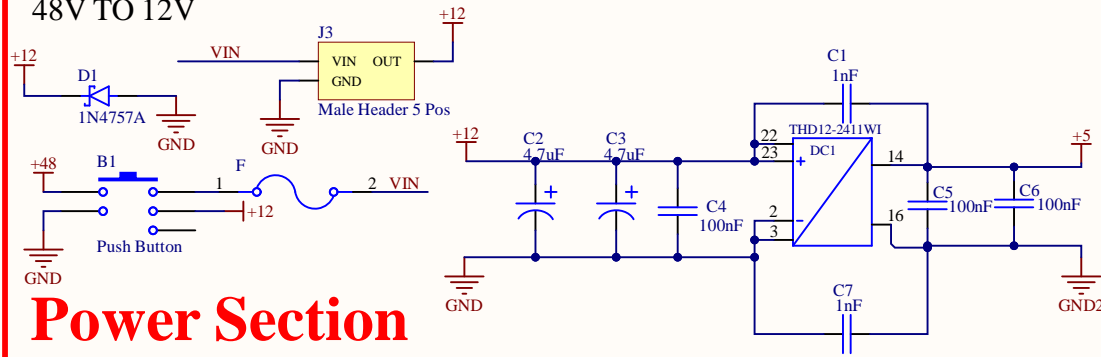
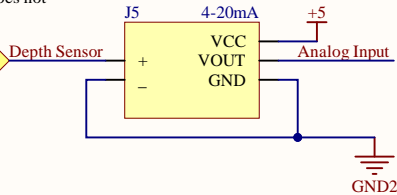


48V TO 12V

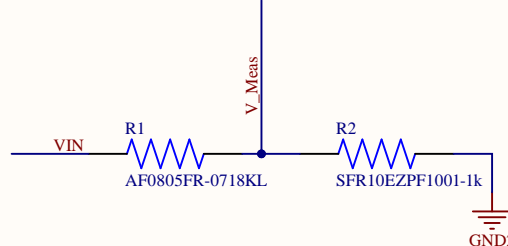


Current to Voltage

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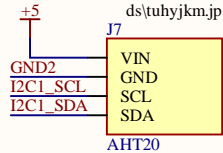


VOLTAGE MEASUREMENT

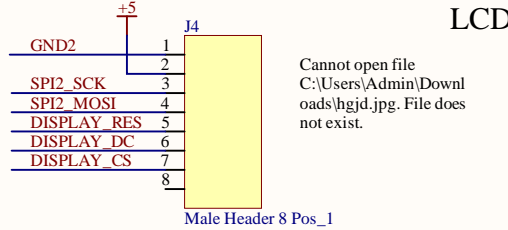


AHT20

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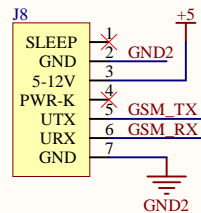


LCD

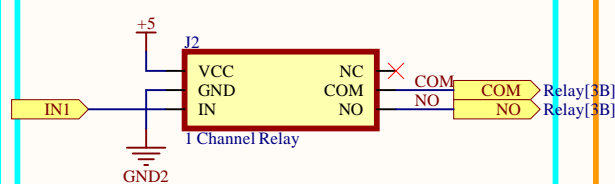


GSM

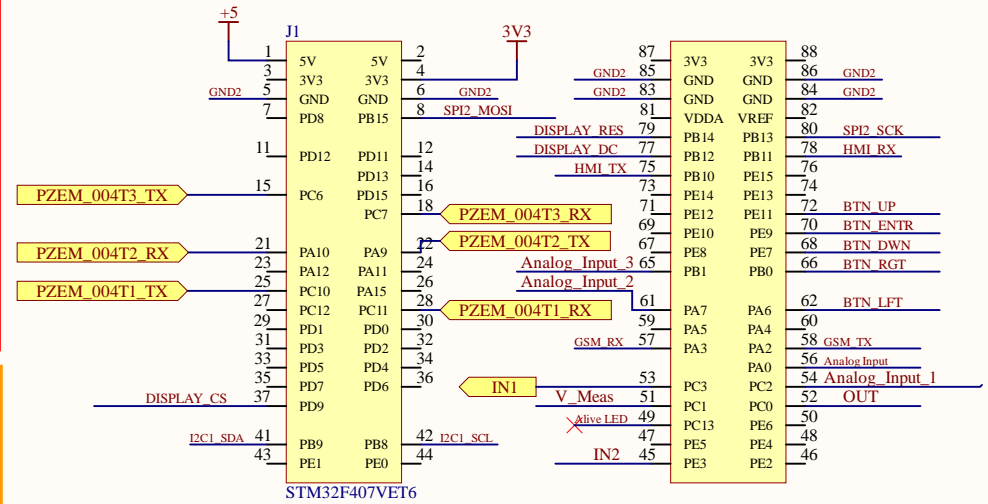
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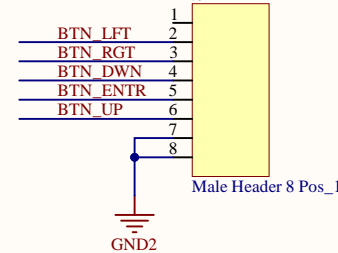
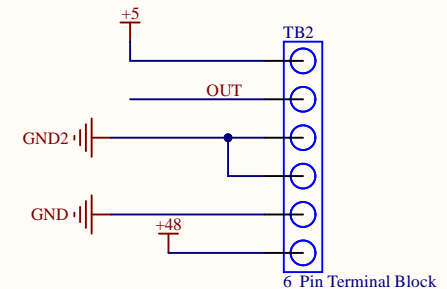
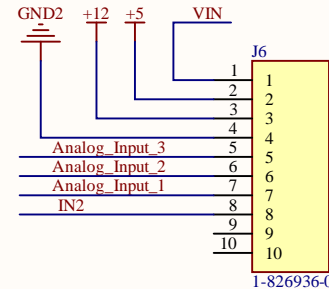
1 CHANNEL RELAY



Interfaces



PZEM-004T1 = UART1 (PA9 = TX) (PA10 = RX)
GSM = UART2 (PA2 = TX) (PA3 = RX)
PZEM-004T3 = UART4 (PC10 = TX) (PC11 = RX)
LCD = UART3 (PB10 = TX) (PB11 = RX)
PZEM-004T2 = UART6 (PC6 = TX) (PC7 = RX)



Comment	Description	Designator	Footprint	LibRef	Quantity
Push Button		B1	Push Button	Push Button	1
1nF	1206 1 nF 2000V ±10% Tolerance X7R Surface Mount Multilayer Ceramic Capacitor	C1, C7	CAPC3216X140N	C1206_1nF	2
4.7uF	Cap Tant Solid 4.7uF 50V C CASE 10%(6 X 3.2 X 2.6mm) Inward L SMD 6032-28 1.4 Ohm 125C T/R	C2, C3	CAPPM6032X280N	C2312_4.7uF	2
100nF	Capacitor, Ceramic; 0.1uF; Chip; Case 0805; +/-10%; 50VVDC; SMD; X7R; 2.5% Df: 0.037IN. ,	C4, C5, C6	CAPC2012X100N	C0805_100nF	3
1N4757A		D1	D1OAD1036W78L463D 272	1N4757A	1
THD12-2411WI	DC101, DC-DC CONVERTER, ISO POL, 1 O/P, 12W, 2.4A, 5.1V; DC / DC Converter Type:DIP; DC / DC Converter Output Type:Fixed; DC / DC Converter Mounting:Through Hole; Output Power Max:12W; Output Current Max:2.4A; Input Voltage DC Min:9V ;RoHS Compliant: Yes	DC1	CONV_THD_12- 2411WI	THD12-2411WI	1
	Fuse Block 10A 250V 1 Circuit Cartridge Through Hole	F	65600001009	Fuse	1
STM32F407VET6		J1	STM32F407VET6	STM32F407VET6	1
1 Channel Relay		J2	1 Channel relay	1 Channel Relay	1
Male Header 5 Pos	Connector Header Through Hole 5 position 0.100" (2.54mm)	J3	Male Header 5 Pos	Male Header 5 Pos	1
Male Header 8 Pos_1		J4, J9	Male Header 8 Pos	Male Header 8 Pos_1	2
4-20mA		J5	4-20mA	4-20mA	1
1-826936-0	10P AMPMODU II STIFT LEI	J6	TE_1-826936-0	1-826936-0	1
AHT20		J7	AHT20	AHT20	1
Male Header 7 Pos		J8	Male Header 7 Pos	Male Header 7 Pos	1
1757268	Pluggable Header 5.08mm 12AWG 320V 12A 4 Position COMBICON MSTBA Series Phoenix Contact 1757268	J10	PHOENIX_1757268	1757268	1
PZEM-004T		J15, J16, J17	PZEM-004T	PZEM-004T	3
Mounting Hole		M1, M2, M3, M4	Mounting Hole	Mounting Hole	4
AF0805FR-0718KL	RES SMD 18K OHM 1% 1/8W 0805	R1	resistor	AF0805FR-0718KL	1
SFR10EZPF1001-1k		R2	resistor	SFR10EZPF1001-1k	1
10 Pin Terminal Block		TB1	10 Pin terminal block	10 Pin Terminal Block	1
6 Pin Terminal Block		TB2	6 Pin terminal block	6 Pin Terminal Block	1