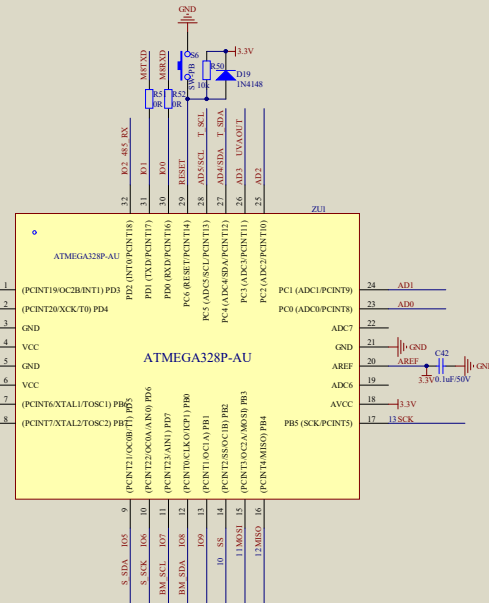
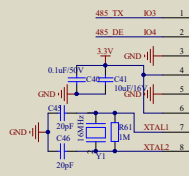
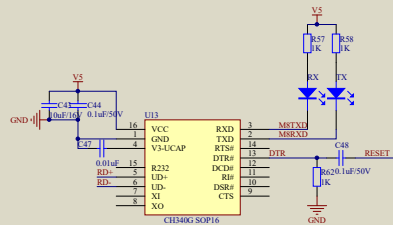
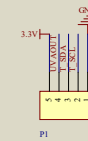
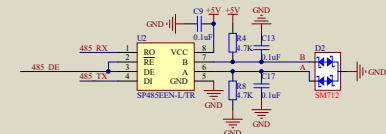
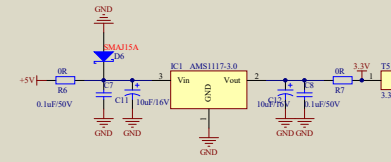
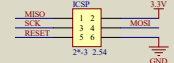
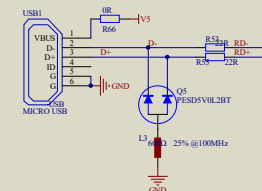


$$V_{out} = 0.8 * (1 + R2/R1) \quad 5V = 0.8 * (1 + 40.2K/7.68K)$$

$$12V = 0.8 * (1 + 140K/10K)$$



- 2----->485_RX
- 3----->485_TX
- 4----->485_DE
- 5----->S_SDA
- 6----->S_SCK
- 7----->BM_SCL
- 8----->BM_SDA
- 9----->
- 10----->
- 11----->
- 12----->
- 13----->
- A0----->
- A1----->
- A2----->
- A3----->UV
- A4----->T_SDA
- A5----->T_SCL



Title		
Size	Number	Revision
A2		
Date:	2018-05-03	Sheet
File:	Z:\VIM	of

Comment	Description	Designator	Footprint	Quantity
1uF/25V	贴片电容	C6	C-0805	1
0.1uF/50V	贴片电容	C7, C8, C10	C-0805	3
0.1uF	贴片电容	C9, C13, C17	C-0603	3
10uF/16V	钽电容	C11, C12	C-3216	2
100uF/16V	直插电解电?	C14	CAP5*X	1
22uF	贴片电容	C15, C16	C-1206	2
22uF 50V	钽电容	C18	CAP5*X	1
0.1uF/50V	贴片电容	C40, C42, C44, C48	C-0603	4
10uF/16V	贴片电容	C41, C43	C-0805	2
20pF	贴片电容	C45, C46	C-0603	2
0.01uF	贴片电容	C47	C-0603	1
SM712	TVS二极管	D2	SOT-23-3	1
SS54	肖特基二极?	D3	SMA(DO-214AC)	1
SMAZ5V6-13-F	稳压二极管?	D5	SMA(DO-214AC)	1
SMAJ15A	TVS二极管	D6	SMA(DO-214AC)	1
1N4148	开关二极管	D19	SOD-123	1
AMS1117-3.0	电源稳压芯?	IC1	SOT-223	1
MP2482	DC-DC芯片	IC2	SO8 -TP	1
2*-3 2.54	单排插针	ICSP	201S2X3	1
4.7uH	功率电感	L1	GD-CD8040	1
600Ω ±5% @100MH	贴片磁珠	L3	L-0805	1
Header 5		P1	JXT-5-I	1
Header 6	单排插针	P2, P3	JXT-6-I	2
PESD5V0L2BT	TVS二极管	Q5	SOT-23-3	1
7.68K	贴片电阻	R1	R-0805	1
100K	贴片电阻	R2	R-0805	1
40.2K	贴片电阻	R3	R-0805	1
4.7K	贴片电阻	R4, R8	R-0603	2
1M	贴片电阻	R5	R-0805	1
0R	贴片电阻	R6	R-0805	1
0R	贴片电阻	R7, R51, R52, R66	R-0603	4
10k	贴片电阻	R50	R-0603	1
22R	贴片电阻	R53, R55	R-0603	2
1K	贴片电阻	R57, R58, R62	R-0603	3
1M	贴片电阻	R61	R-0603	1
蓝色	贴片发光二?	RX, TX	LED-0603	2
SW-PB	微型按键开?	S6	轻触(3*6*4.3)	1
TP		T1, T2, T3	安装孔-M6	3
5V	测试点	T4	TEST_POINT	1
3.3V		T5	TEST_POINT	1
SP485EEN-L/TR	RS485收发芯	U2	SOP-8_150mil	1
CH340G SOP16		U13	SOIC16_39MM	1
MICRO USB	MICRO USB	USB1	MICRO_USB	1
1.27 4PIN	1.27 卧式贴?	XS1	JXT-4-I	1
1.27 4PIN	1.27 卧式贴?	XS3	XH2.54-4P	1
16MHz		Y1	hc49s	1
ATMEGA328P-AU	单片机	ZU1	TQFP-32_7x7x08P	1