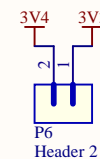
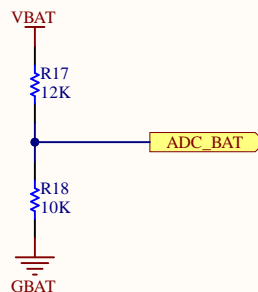


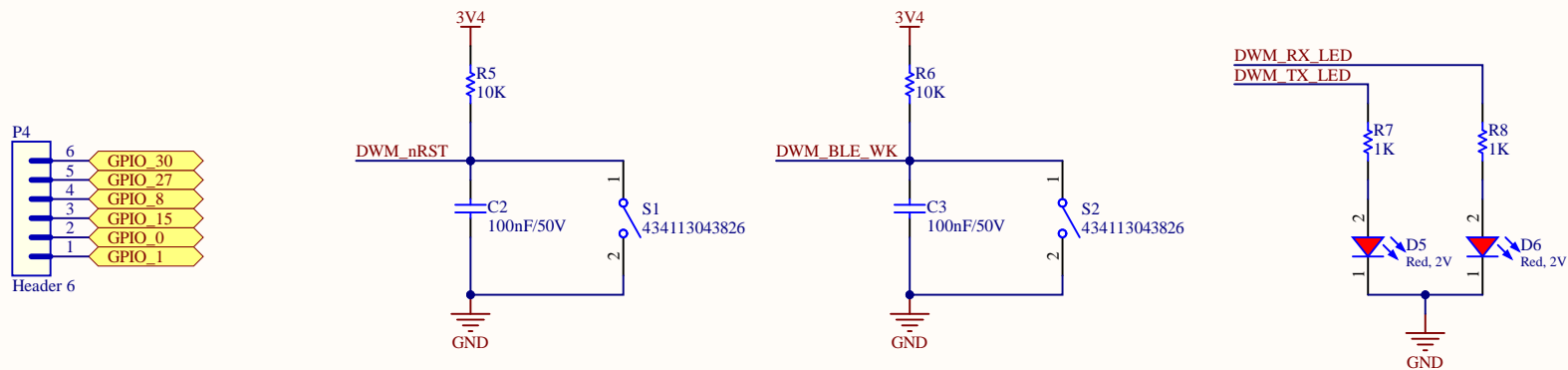
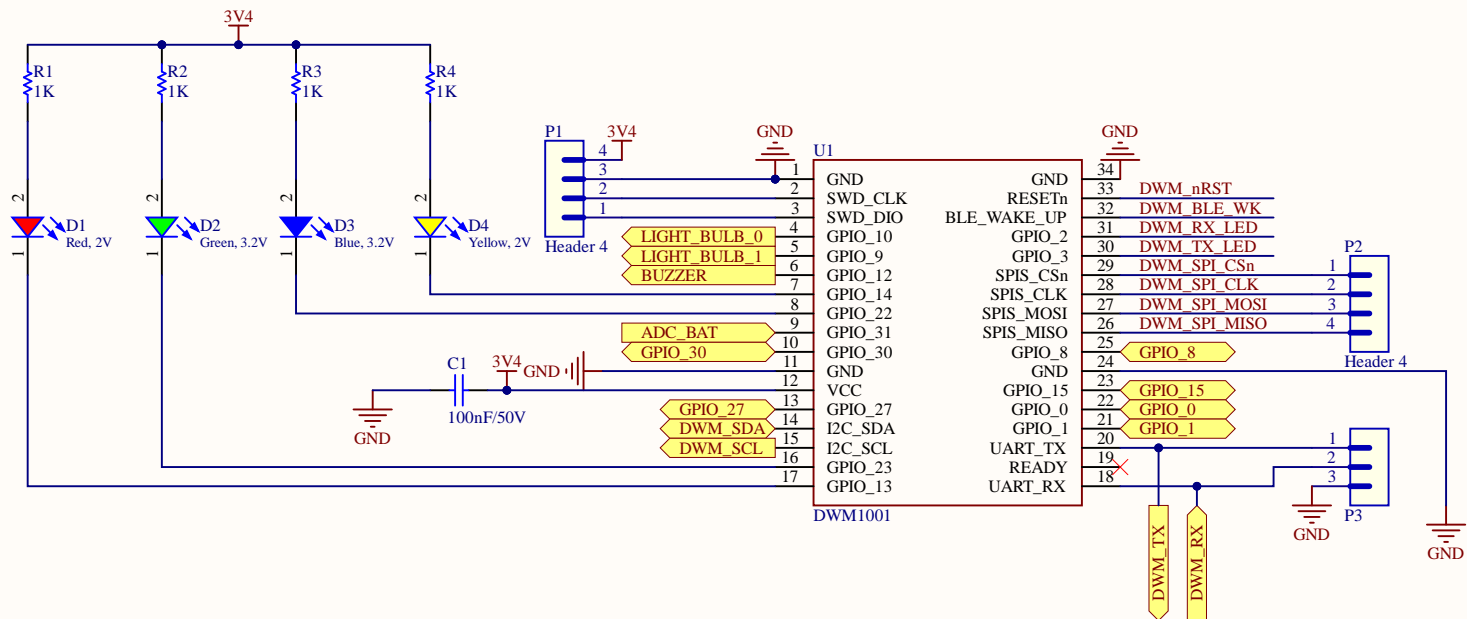
Input:
220VAC
VBUS (5V)
Output:
5V (Only available when 220VAC input available)
3V4



Project	RTL5	
Revision	1.0.0	Sheet 2 of 4
Date	1/9/2021	Time 1:27:24 PM
Author	Van Tuan Ngo	
File	power_supply.SchDoc	

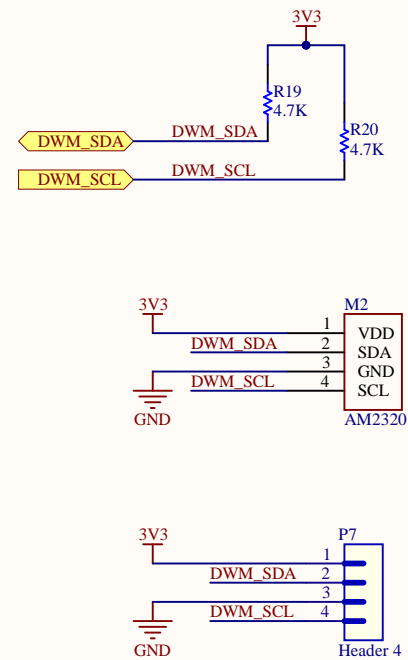
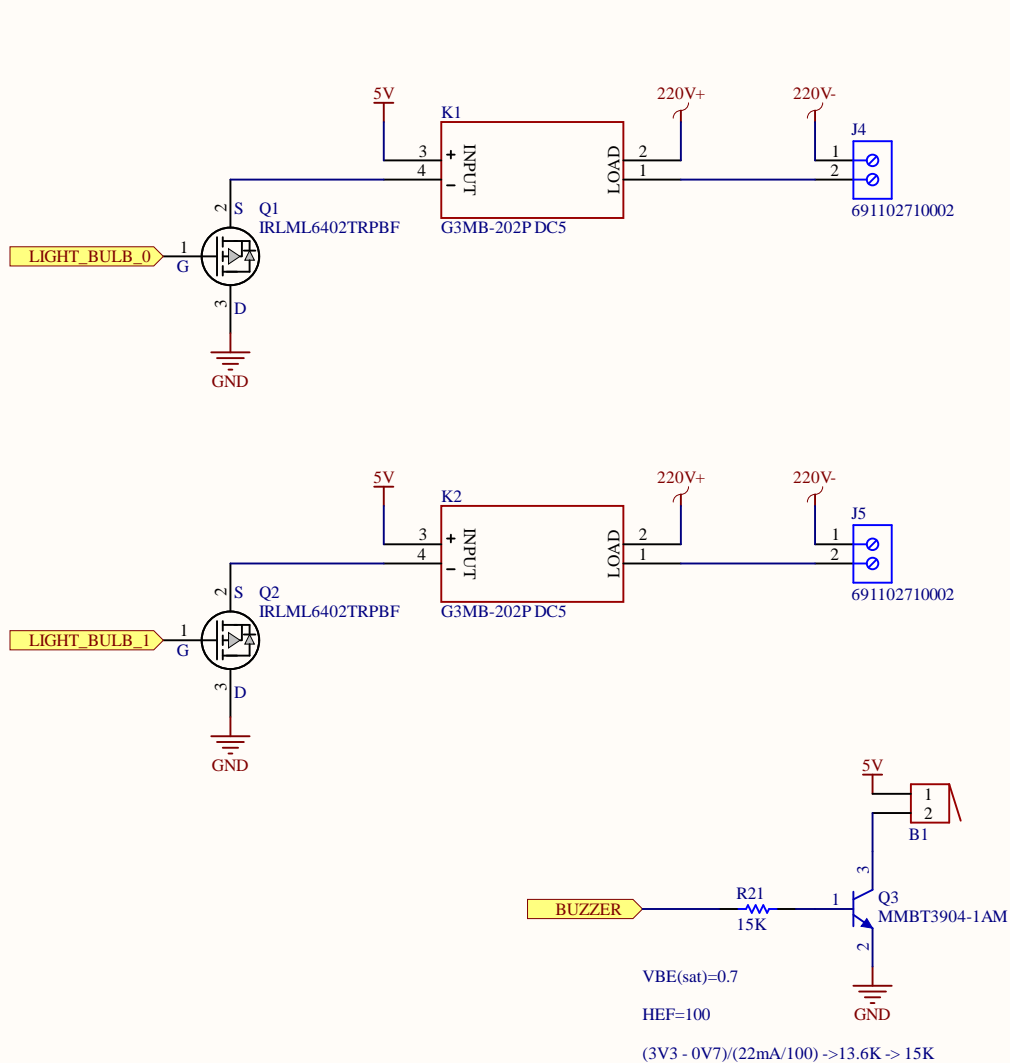
HCMUT,
Ly Thuong Kiet St.,
District 10, HCM, VN





Project	RTLS		HCMUT, Ly Thuong Kiet St., District 10, HCM, VN
Revision	1.0.0	Sheet 1 of 4	
Date	1/9/2021	Time 1:27:25 PM	
Author	Van Tuan Ngo		
File	main.SchDoc		

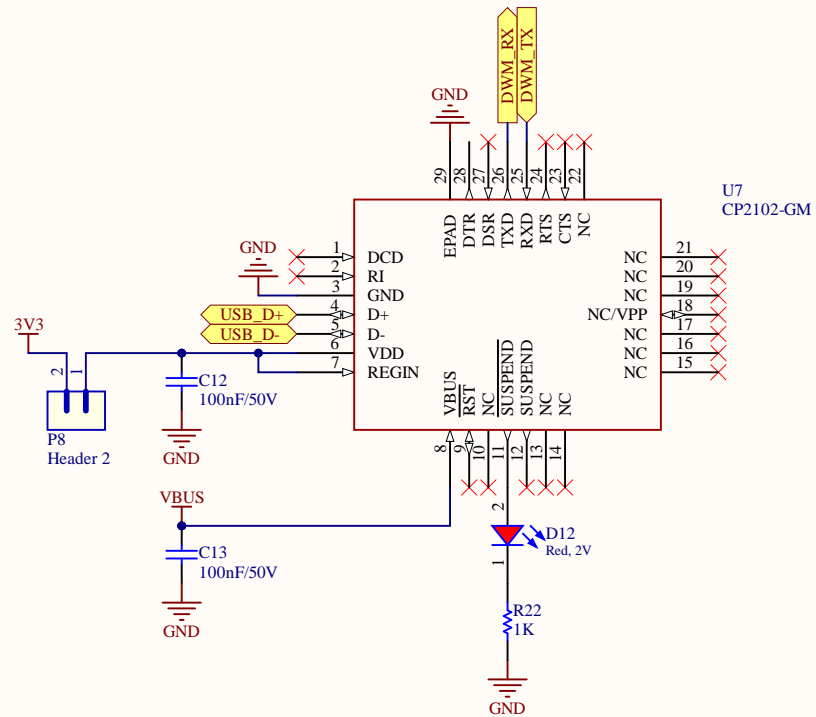




$V_{BE(sat)}=0.7$
 $HEF=100$
 $(3V3 - 0V7)/(22mA/100) \rightarrow 13.6K \rightarrow 15K$

Project	RTLIS		HCMUT,
Revision	1.0.0	Sheet 3 of 4	Ly Thuong Kiet St.,
Date	1/9/2021	Time 1:27:26 PM	District 10, HCM, VN
Author	Van Tuan Ngo		
File	io_sensor.SchDoc		





Project	RTL5		HCMUT,
Revision	1.0.0	Sheet 4 of 4	Ly Thuong Kiet St.,
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Author	Van Tuan Ngo		
File	serial.SchDoc		



