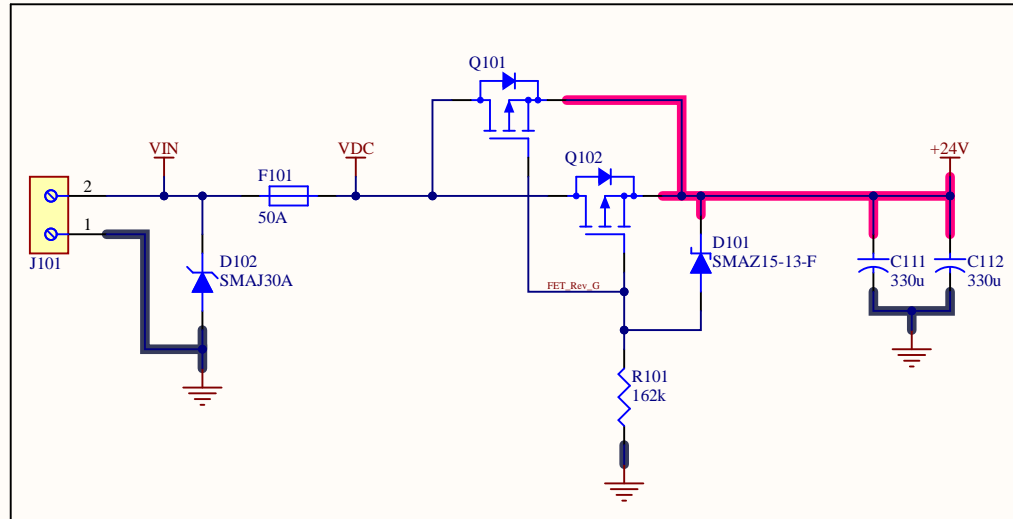
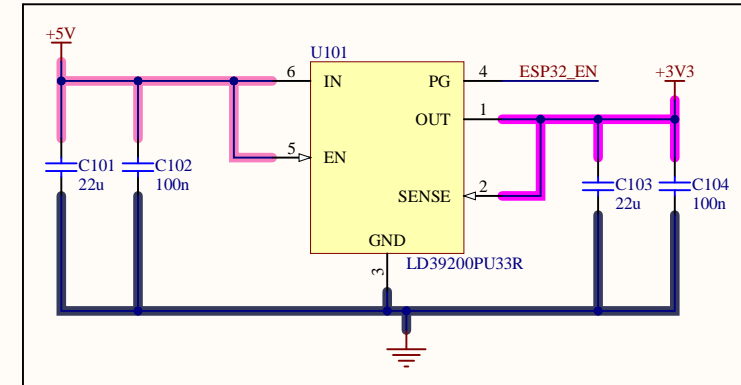


[1] POWER

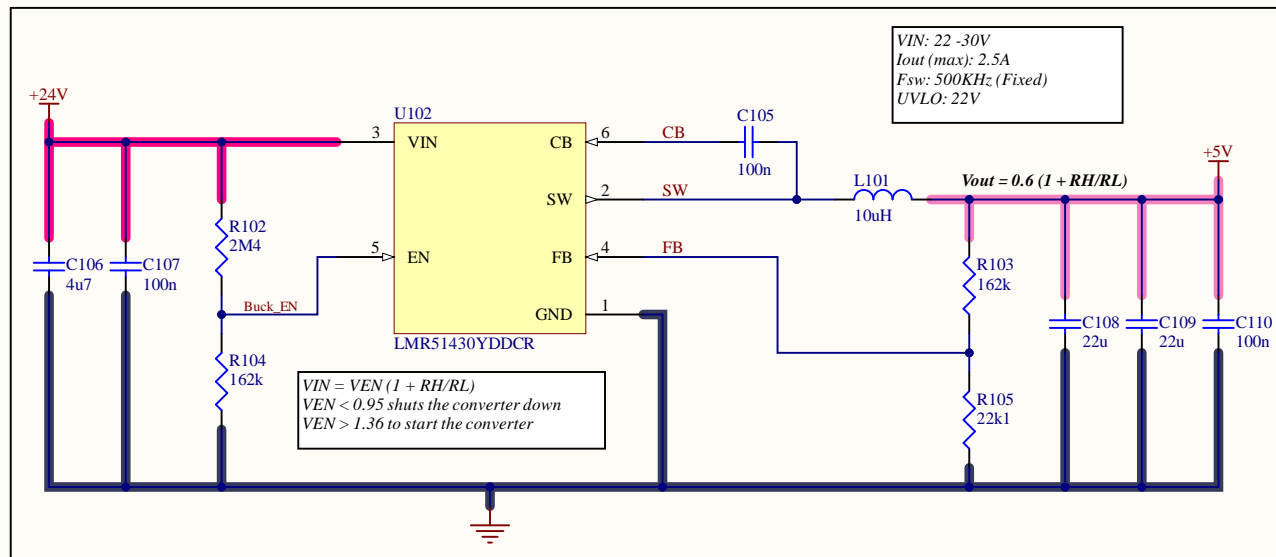
Input Power & Protection



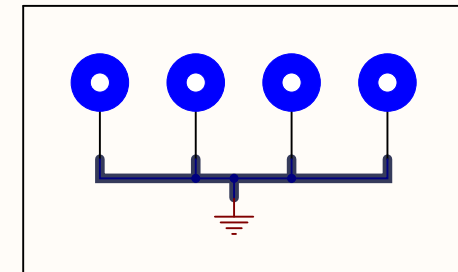
5V to 3V3 LDO



24V to 5V Buck Converter

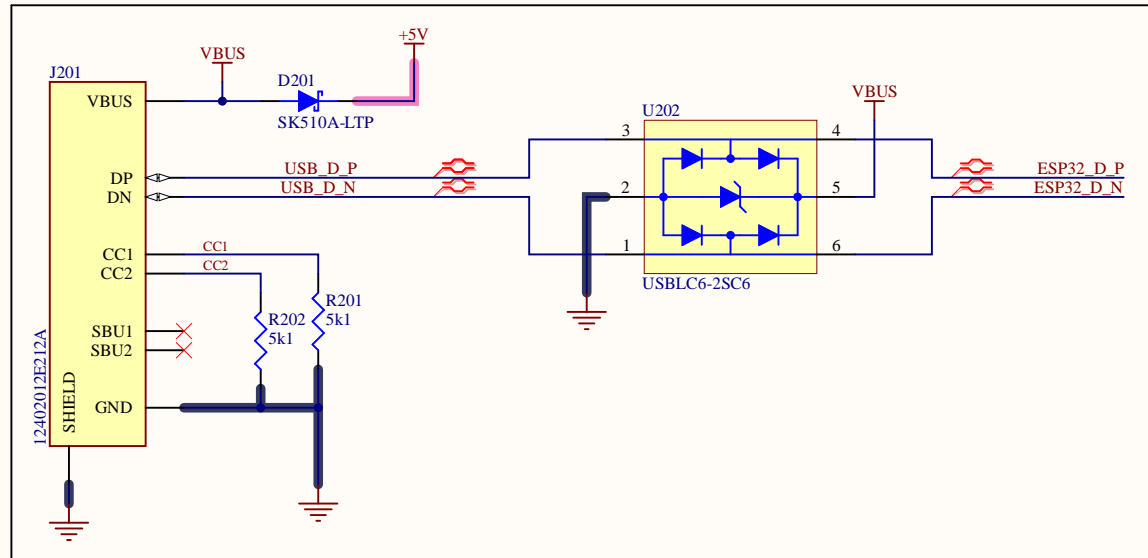


Mounting Holes

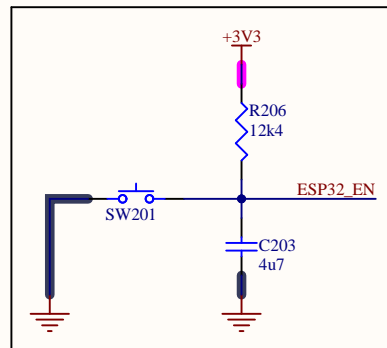


Title		
Size	Number	Revision
B		
Date:	11-29-2025	Sheet of
File:	D:\Khaled\...\(1) Controller A20_Power.Sch.Dwg	
	Drawn By:	

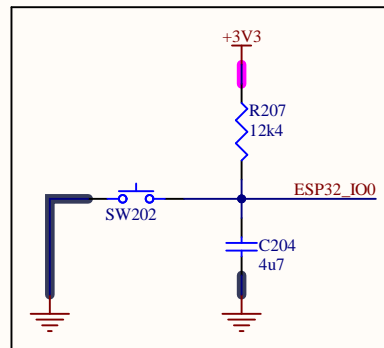
ESP32 USB



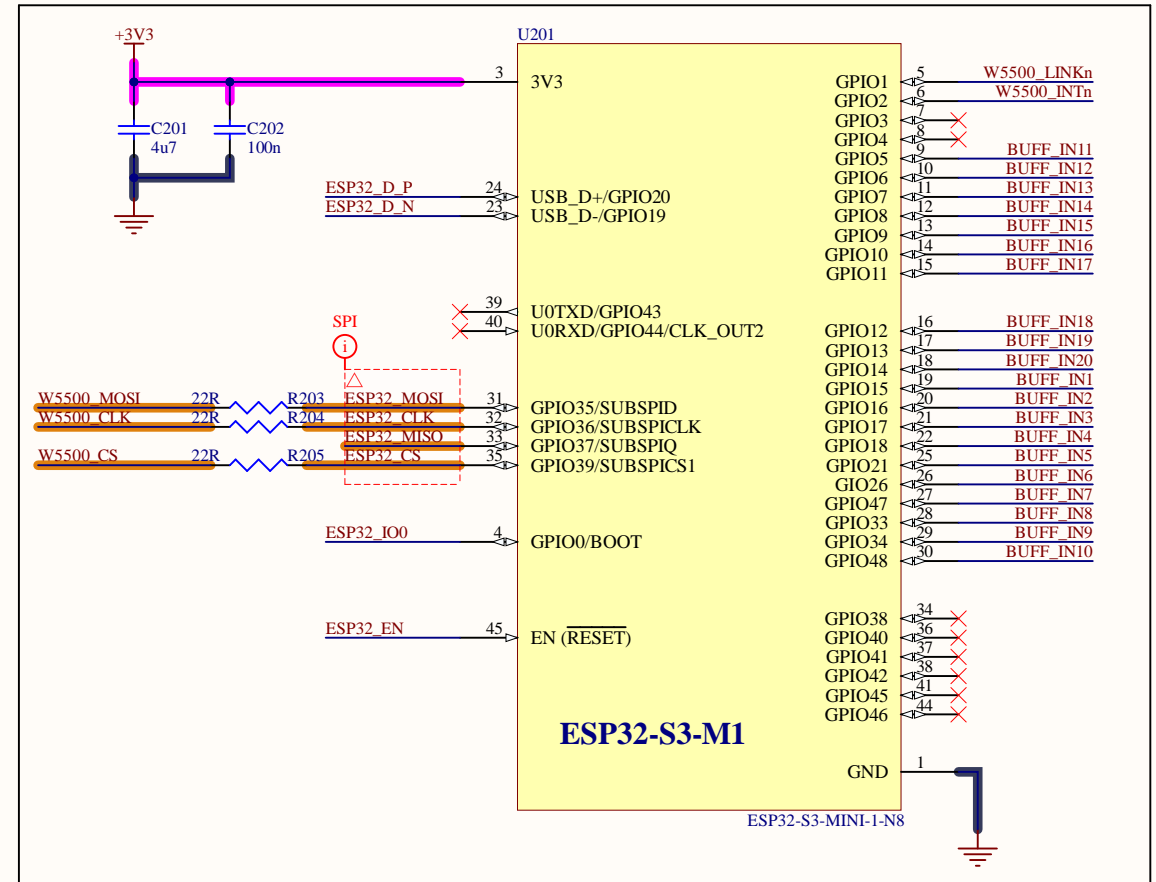
RESET Button



BOOT Button

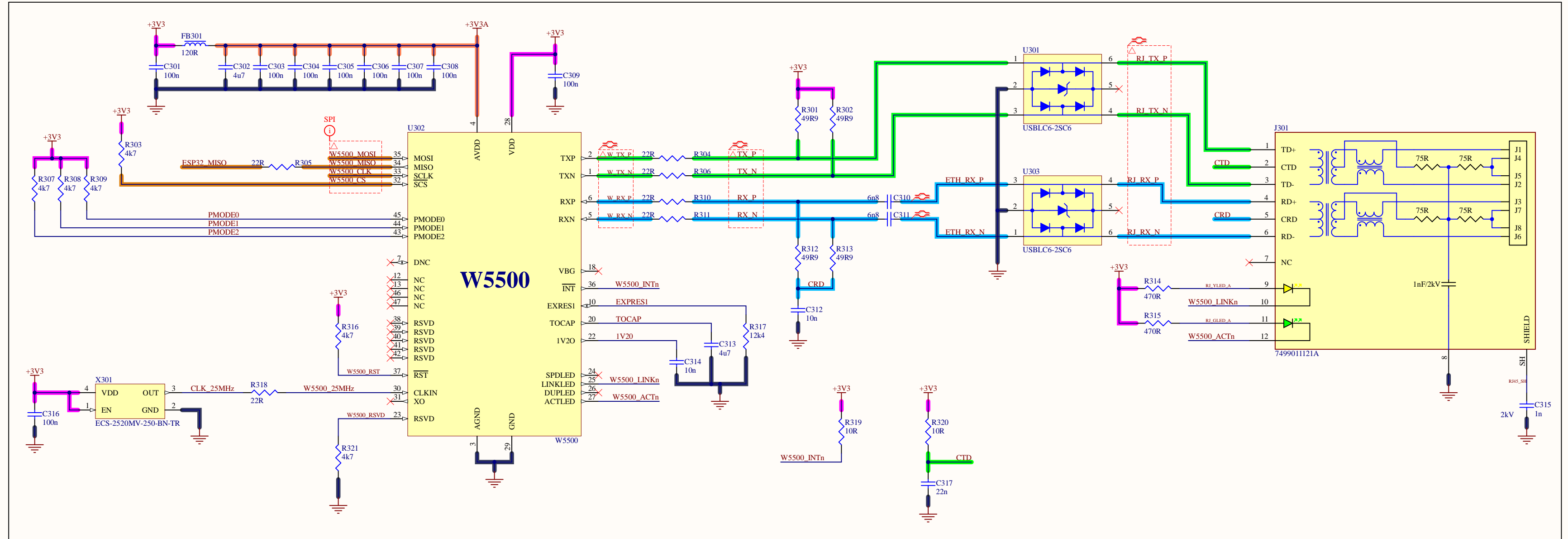


ESP32 Module



Title		
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Date:	11-29-2025	Sheet of
File:	D:\Khaled_(2) Controller A20 ESP32 SchDown By:	

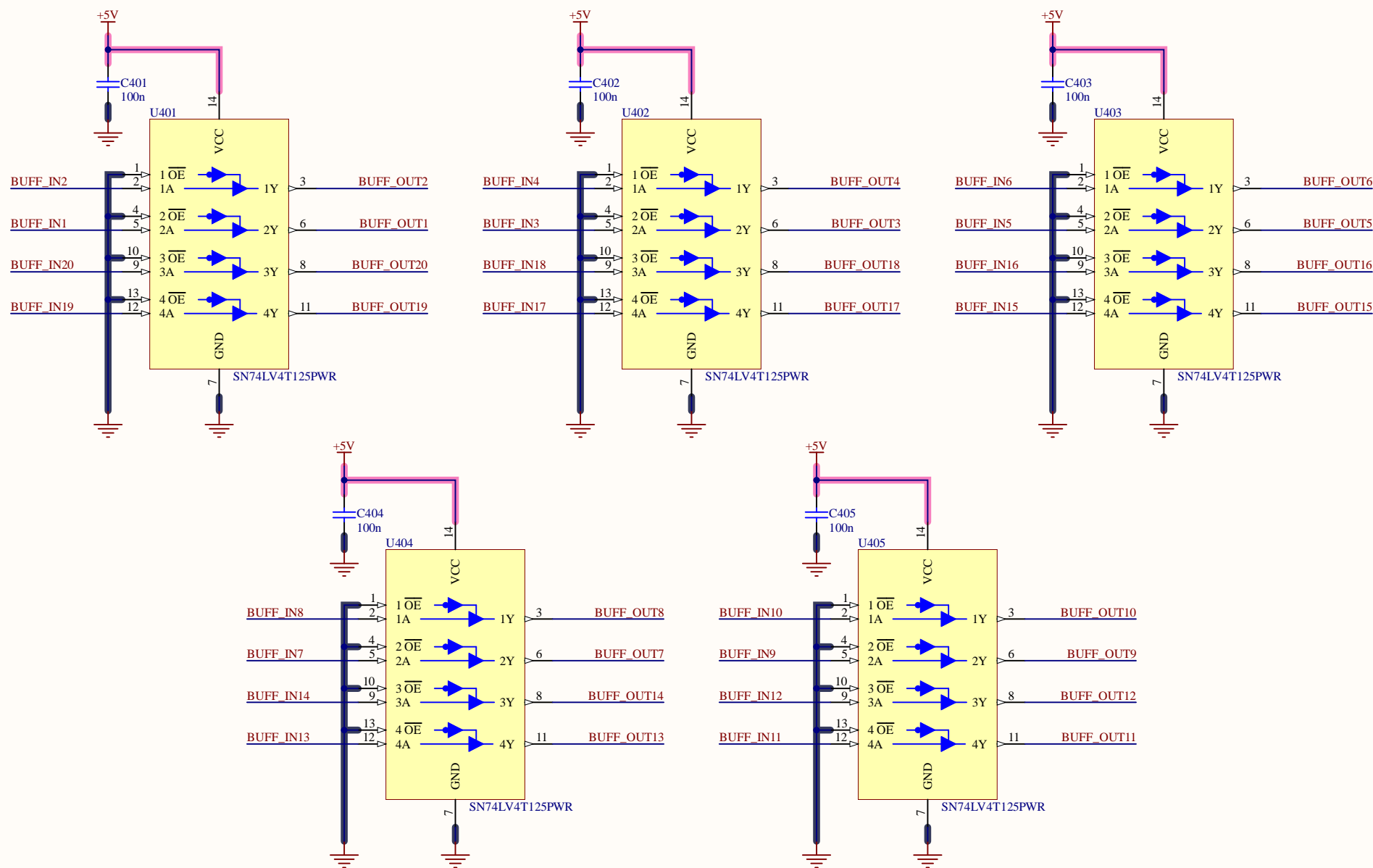
W5500 Module & RJ45 Connector



Title		
Size B	Number	Revision
Date:	11-29-2025	Sheet of
File:	D:\Khaled_(3) Controller A20_Ethernet_Solution By:	

[4] BUFFERS

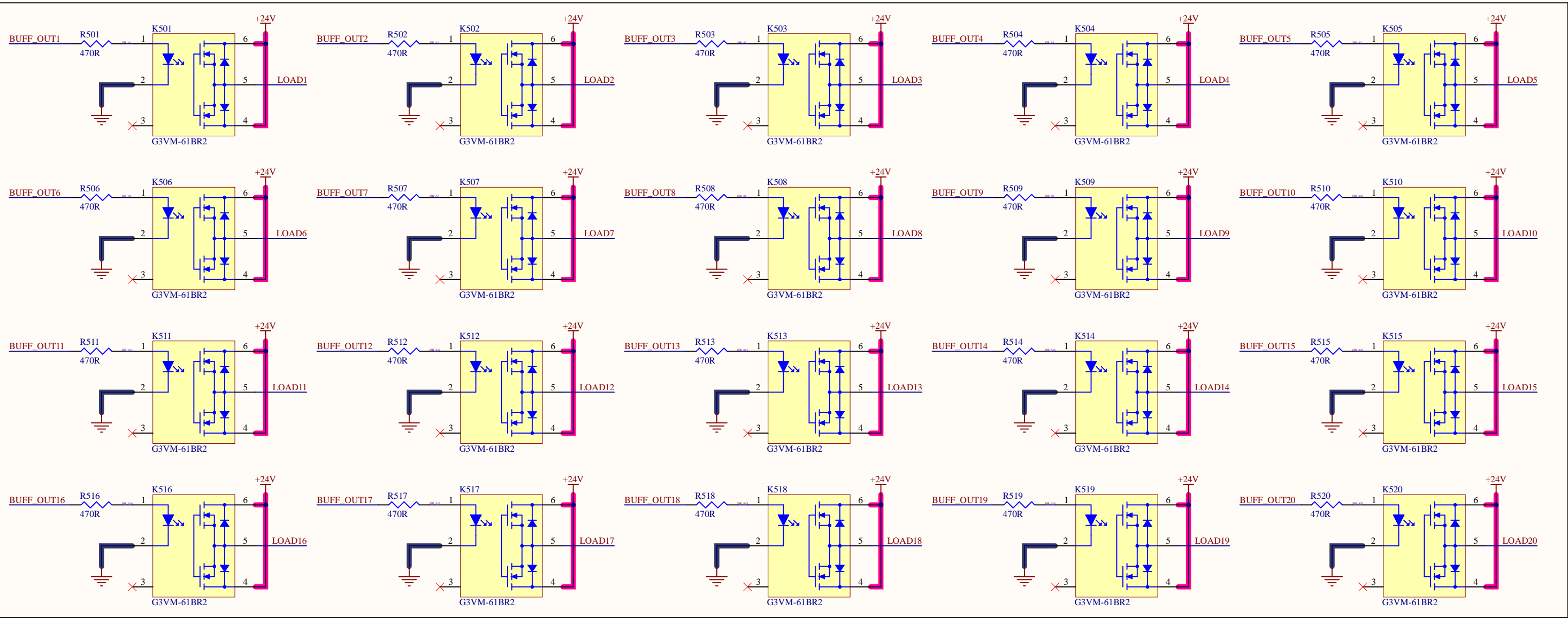
Quadruple Buffer Translator



Title		
Size B	Number	Revision
Date:	11-29-2025	Sheet of
File:	D:\Khaled\...(4) Controller A20_BUFFER.DSD By:	

[5] MOSFET SSRs

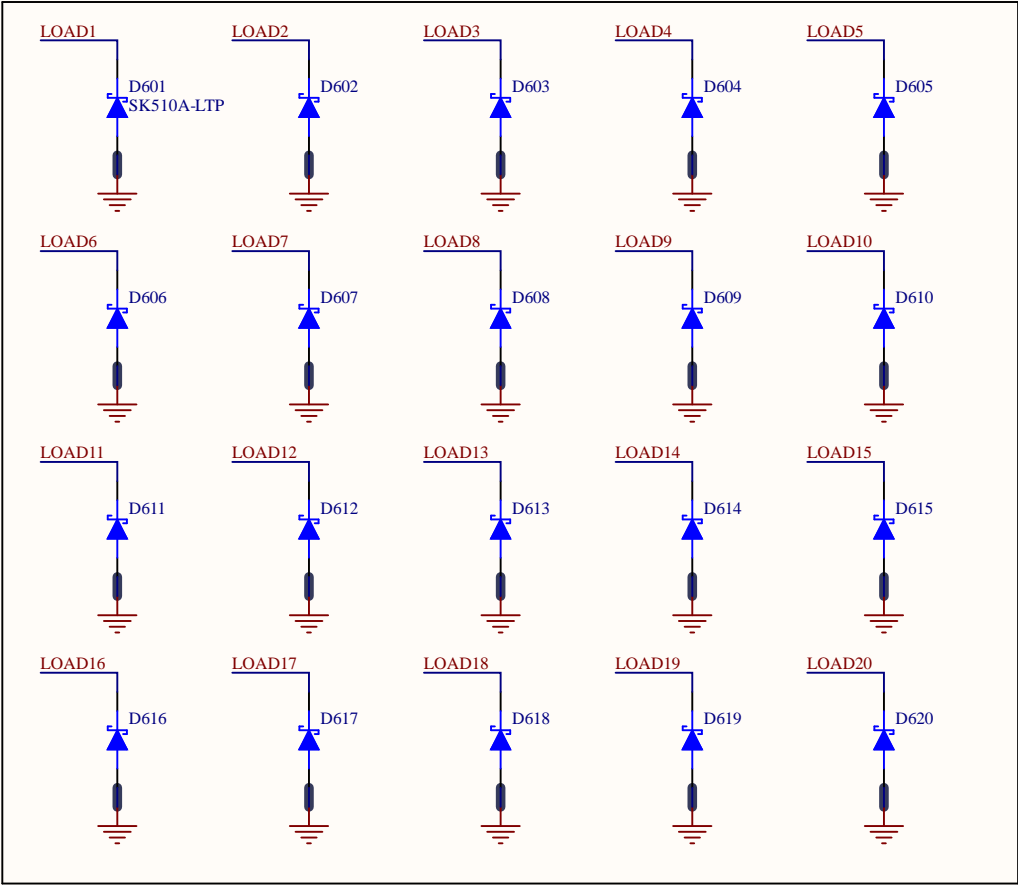
MOSFET SSRs



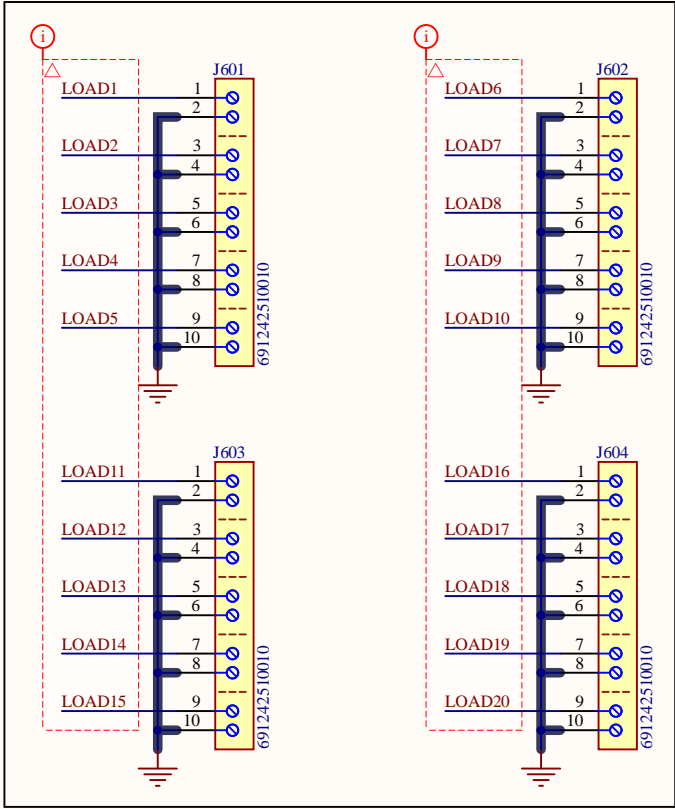
Title		
Size	Number	Revision
B		
Date:	11-29-2025	Sheet of
File:	D:\Khaled\...\(5) Controller A20_SSRs.Sch Down By:	

[6] OUTPUTS

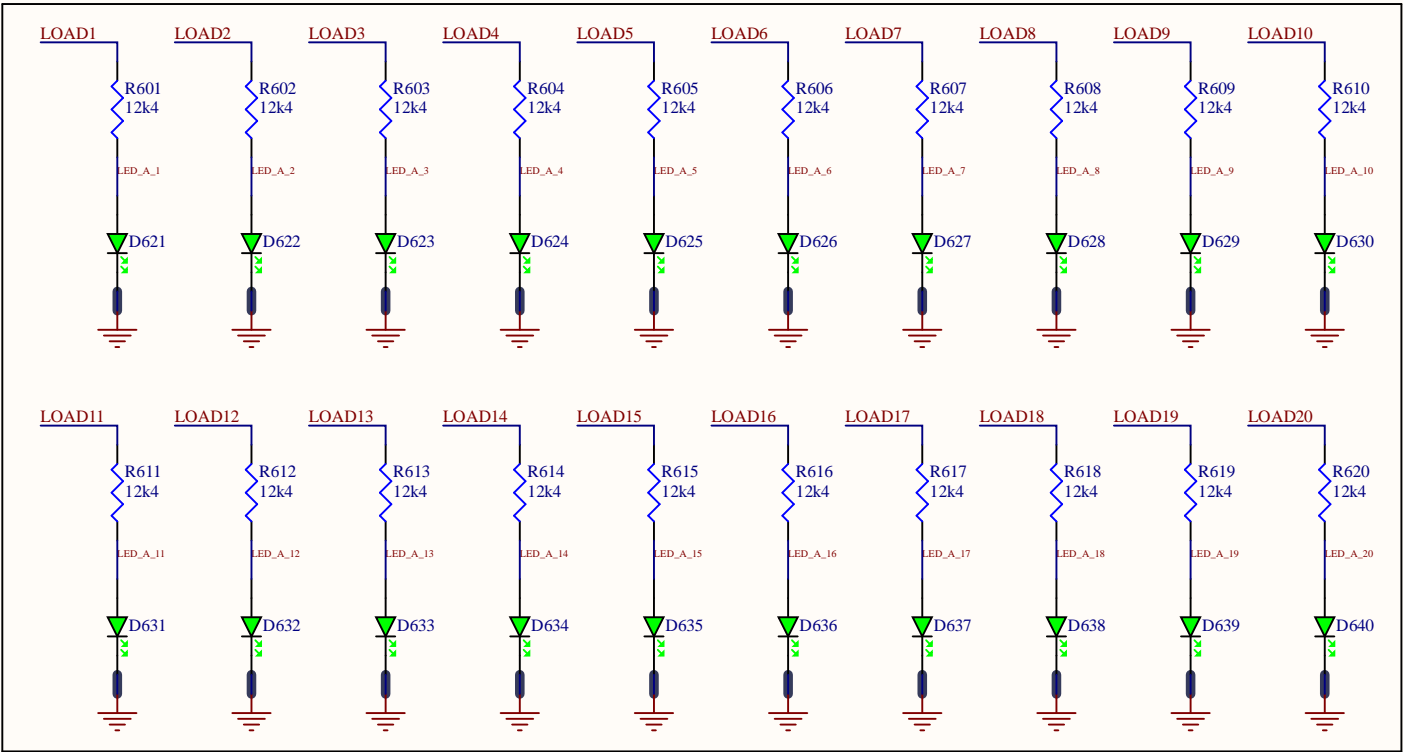
Flyback Diodes



OUTPUT Connectors



OUTPUT LED Indicators



Title		
Size	Number	Revision
A3		
Date:	11-29-2025	Sheet of
File:	D:\Khaled\...(6) Controller A20_OUTPUT	11-29-2025