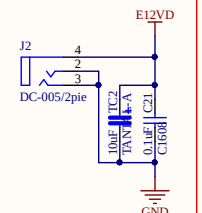
DC Jack

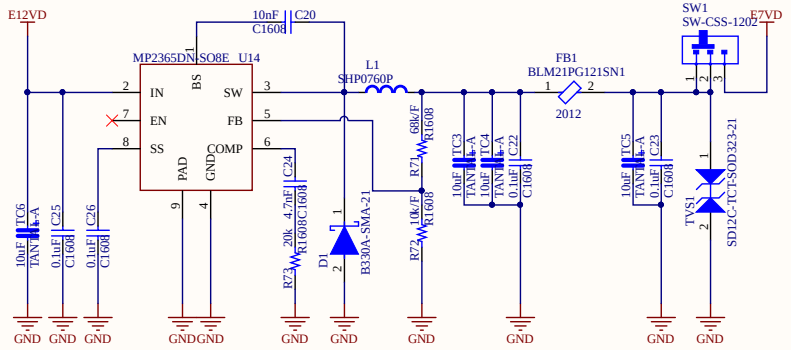


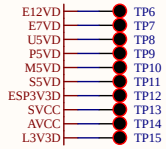
<Step-Down Converter Vo>

Vo = 0.92 x ((R1+R2) / R)

7.176 = 0.92 x ((68k + 10k) / 10k)

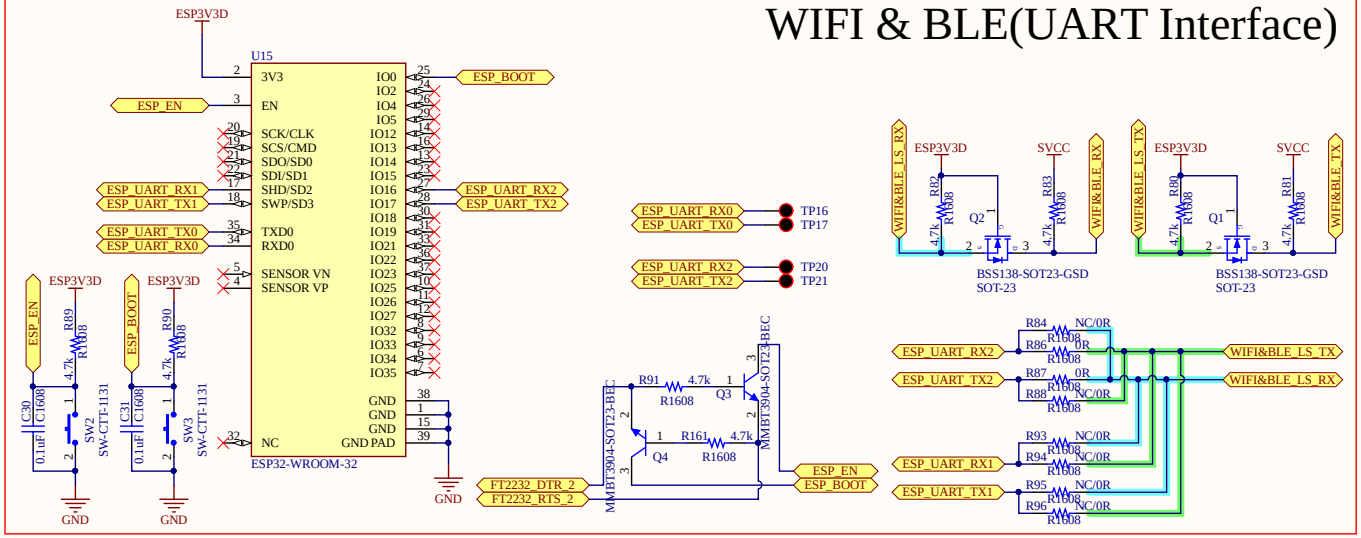
Step-Down Converter(3A)



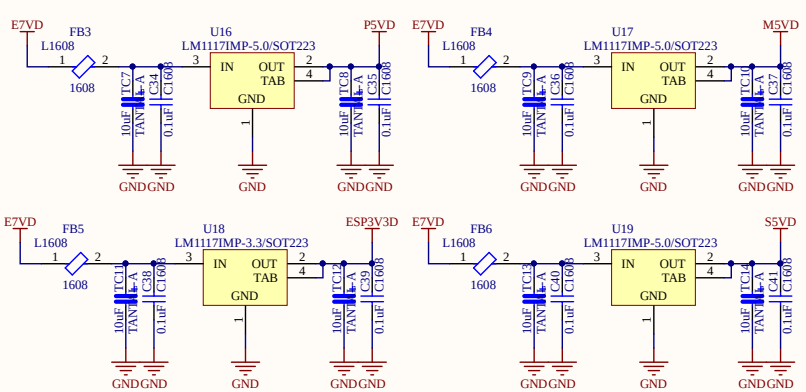


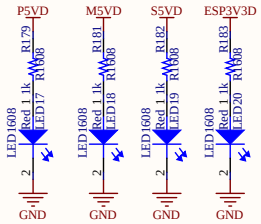
POWER

WIFI & BLE(UART Interface)



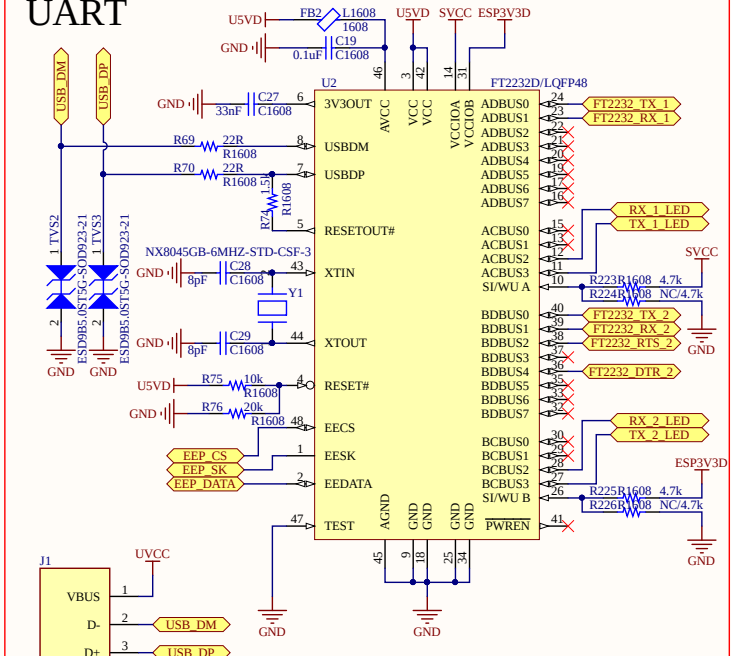
LDO

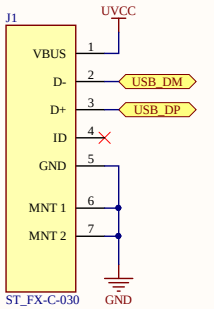


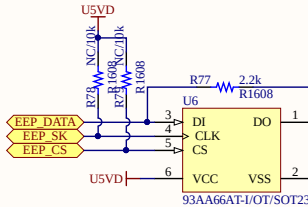


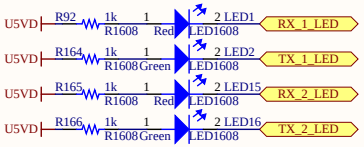
- UVCC / U5VD : USB 5V 입력 전압
- SVCC : MCU 3.3&5V 메인 전압
- AVCC : MCU 3.3&5V 아날로그 전압
- E12VD : 외부 어댑터 12V 입력 전압
- E7VD : 외부 12V 스텝 다운한 5V/3A 전압
- S5VD : MCU 5V 공급 전압
- P5VD : MCU&모터&ESP를 제외한 5V 공급 전압
- M5VD : 모터 5V 공급 전압
- ESP3V3D : ESP 3.3V / Pin HDR 3.3V / FT2232 3,3V 공급 전압
- L3V3D : TFT LCD 3.3V 메인 전압

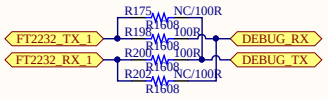
UART

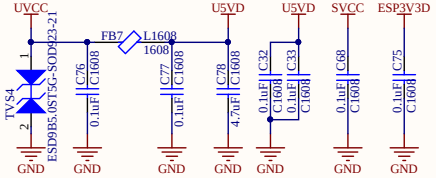


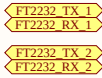








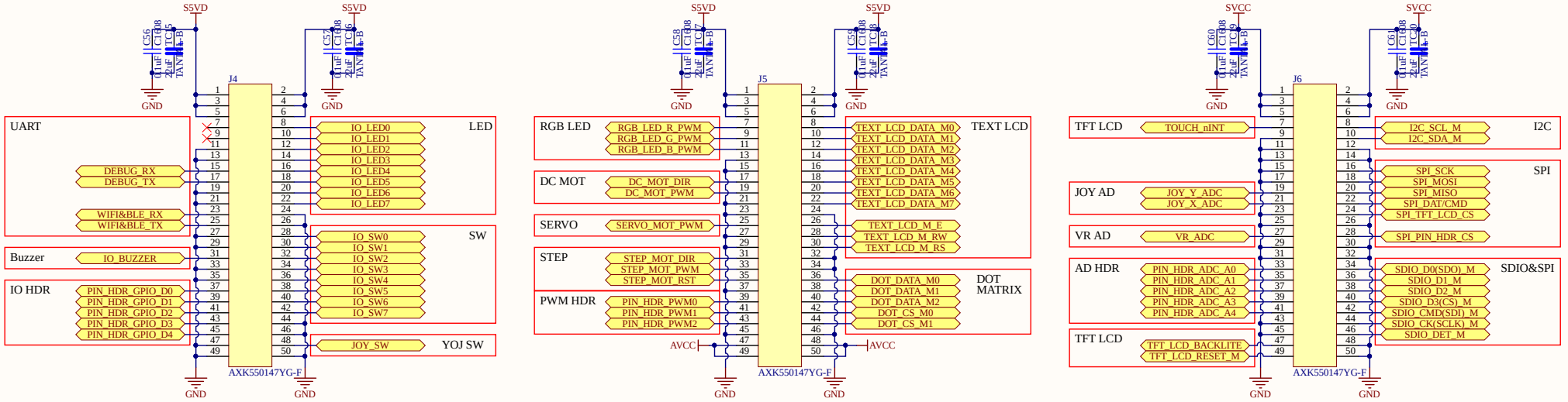




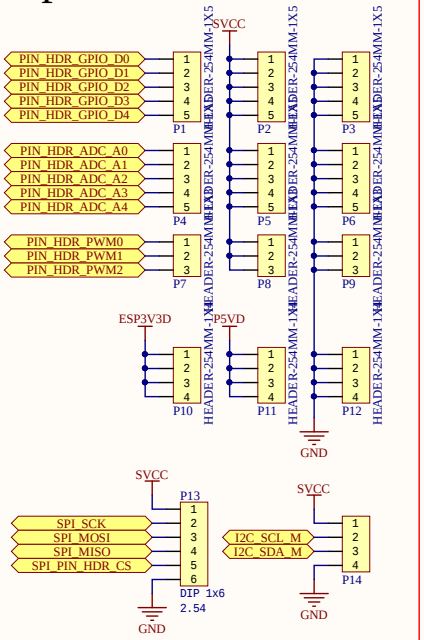
Title *		HyBus Corp. [SOLUTION DIVISION]	
Doucment Number *		Designed By	Revision: *
Date: 2019-12-18	Time: 오후 3:20:42	Sheet * of *	Size: A3

HyBus

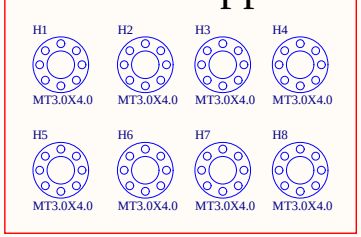
MCU Board to Board Connector



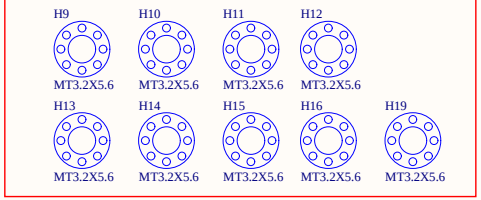
Expansion Pin HDR



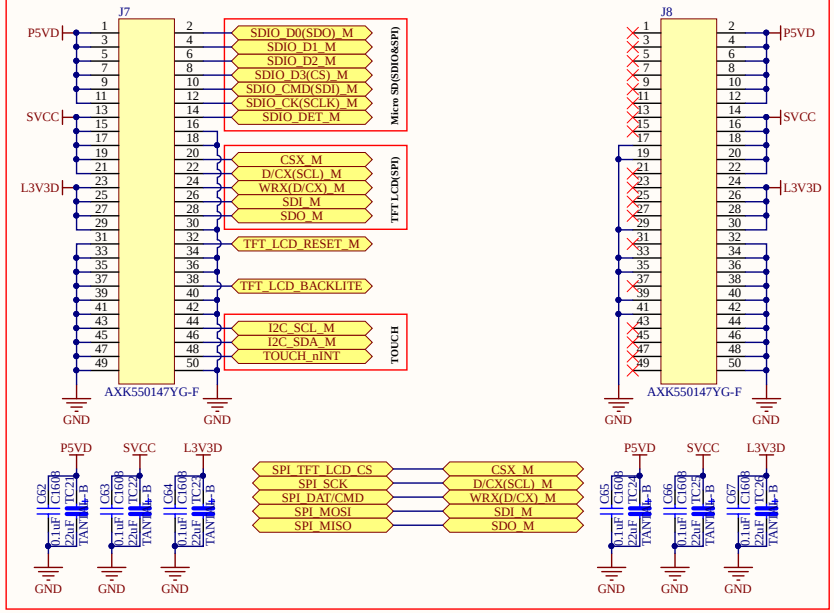
B to B Support



Base Board Support

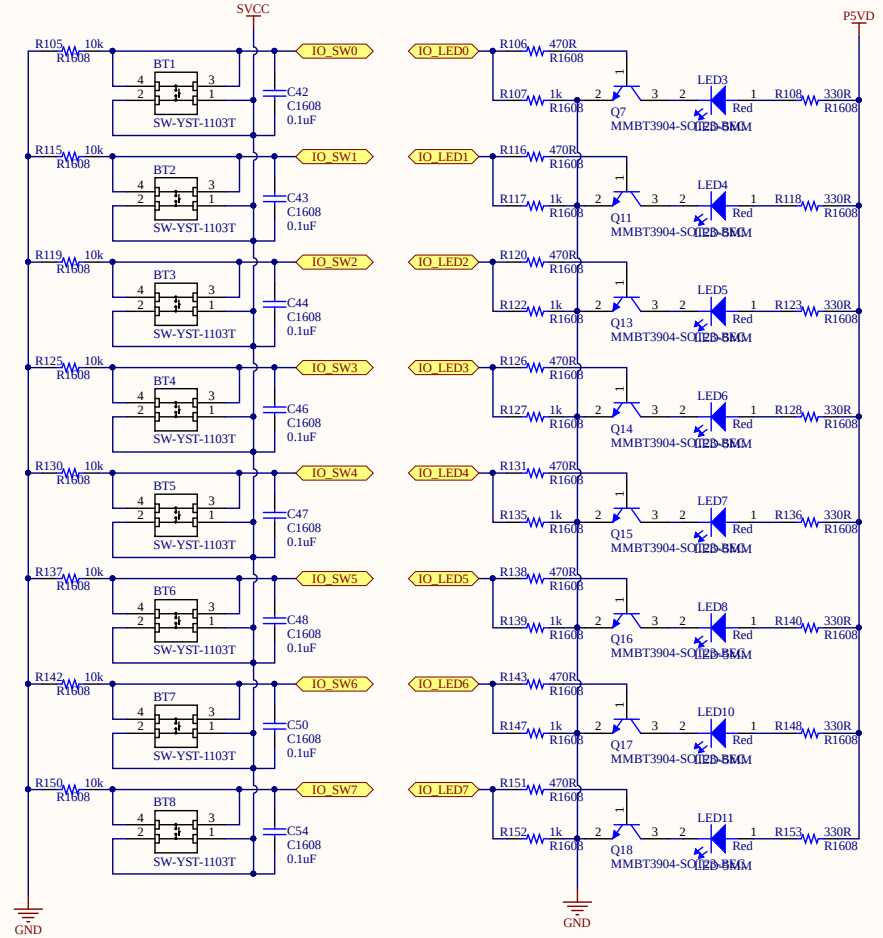


B to B Connector

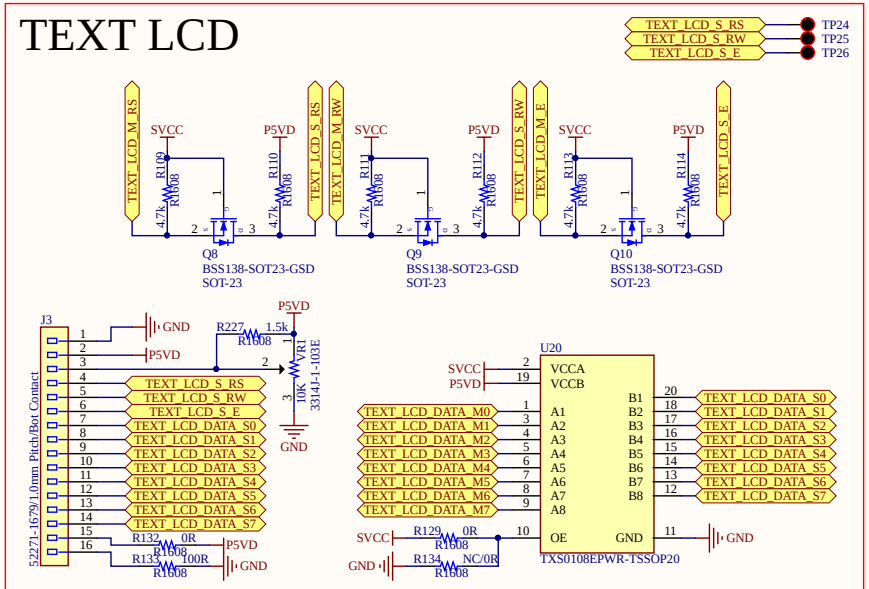


Title *		HyBus Corp. [SOLUTION DIVISION]	
Doucment Number *		Designed By	Revision: *
Date: 2019-12-18	Time: 오후 3:20:43	Sheet * of *	Size: A3

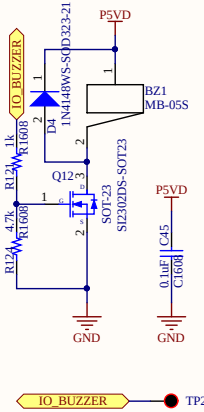
LED & SW



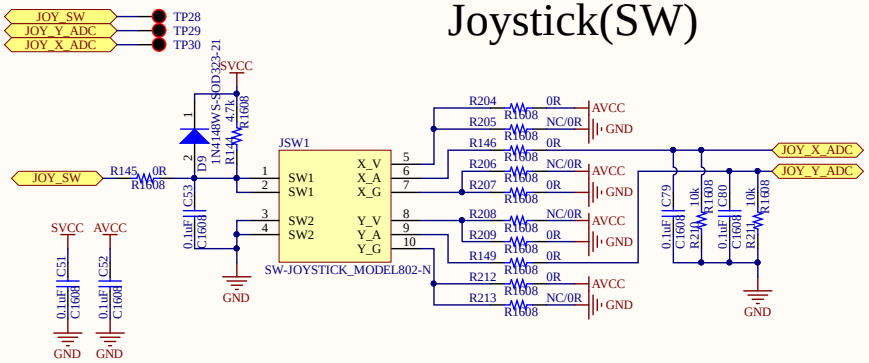
TEXT LCD



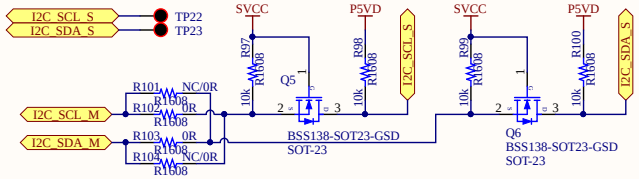
Buzzer



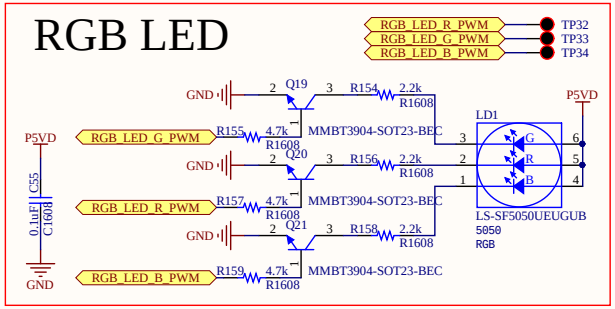
Joystick(SW)



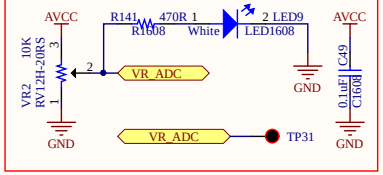
I2C Level Shifter



RGB LED

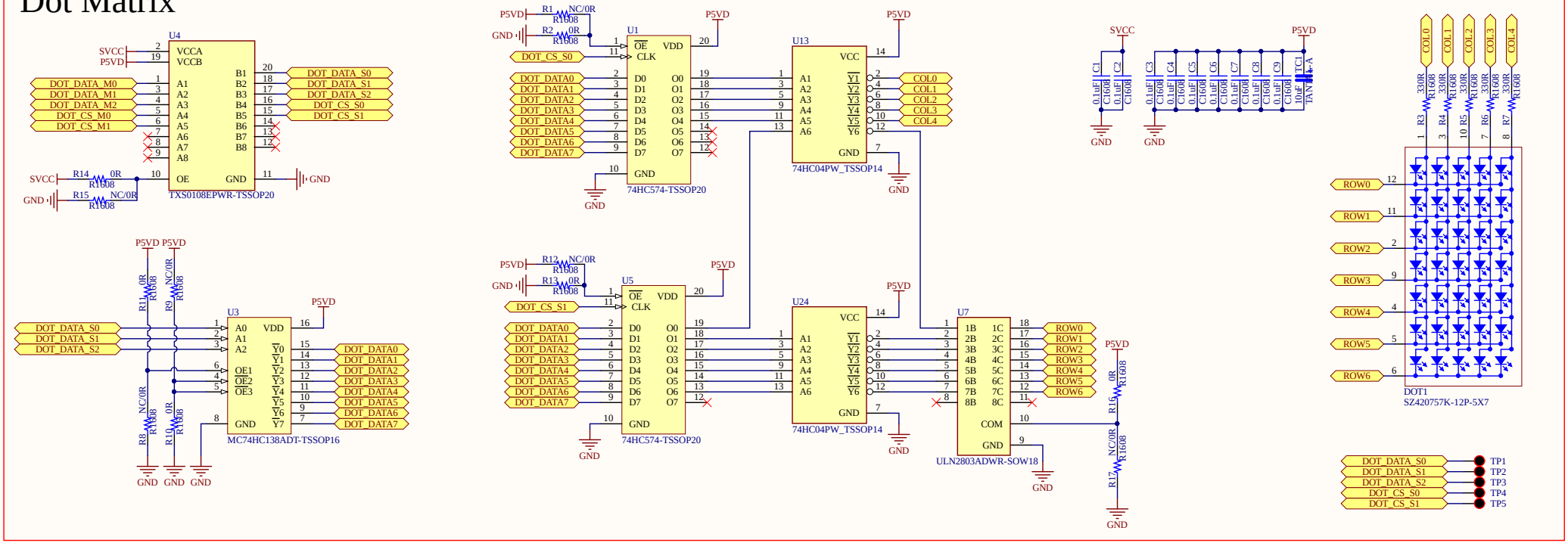


VR

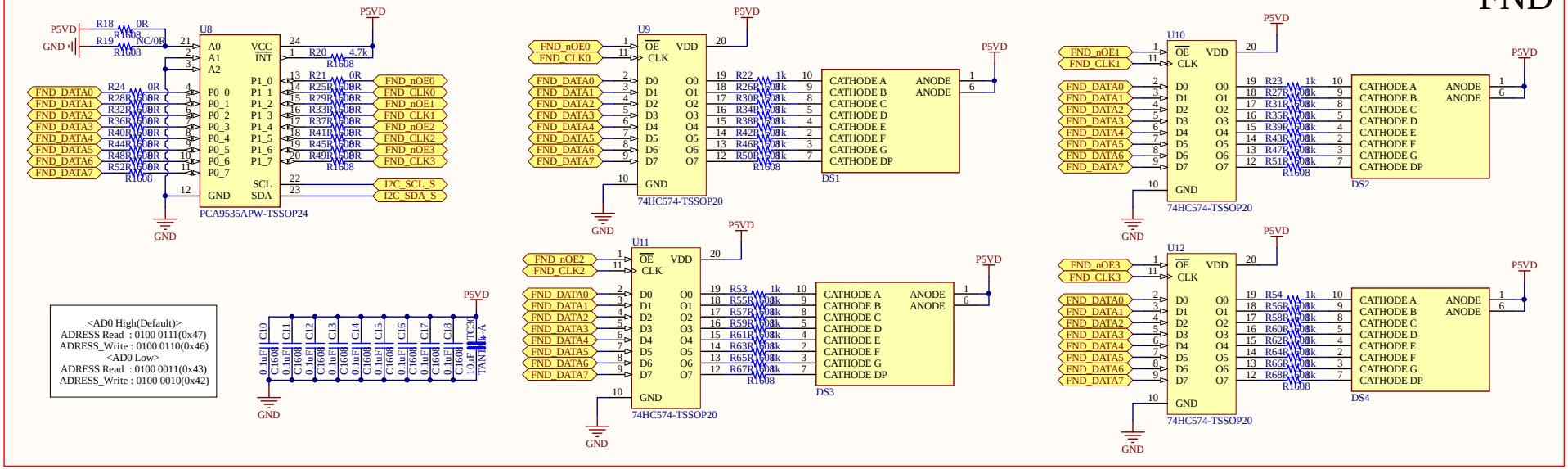


Title *		HyBus Corp. [SOLUTION DIVISION]	
Doucment Number *		Designed By	Revision: *
Date: 2019-12-18	Time: 오후 3:20:43	Sheet * of *	Size: A3

Dot Matrix

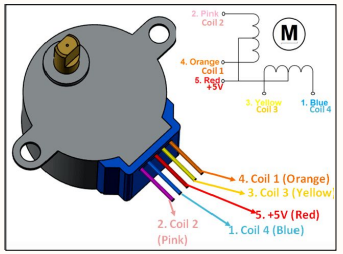


FND



Title *		HyBus Corp.	[SOLUTION DIVISION]
Doucment Number	*	Designed By	Revision: *
Date: 2019-12-18	Time: 오후 3:20:44	Sheet * of *	Size: A3

Step Motor Driver



- Vref : 0
- SYNC : 0
- ENABLE : 1

	0	1
STEP_H/F	FULL STEP	HALF STEP
STEP_CTRL	INH ACTIVE	INH INACTIVE

DC Motor Driver

Servo Motor Connector

Title *		HyBus Corp. [SOLUTION DIVISION]	
Doucment Number *		Designed By	Revision: *
Date: 2019-12-18	Time: 오후 3:20:44	Sheet * of *	Size: A3