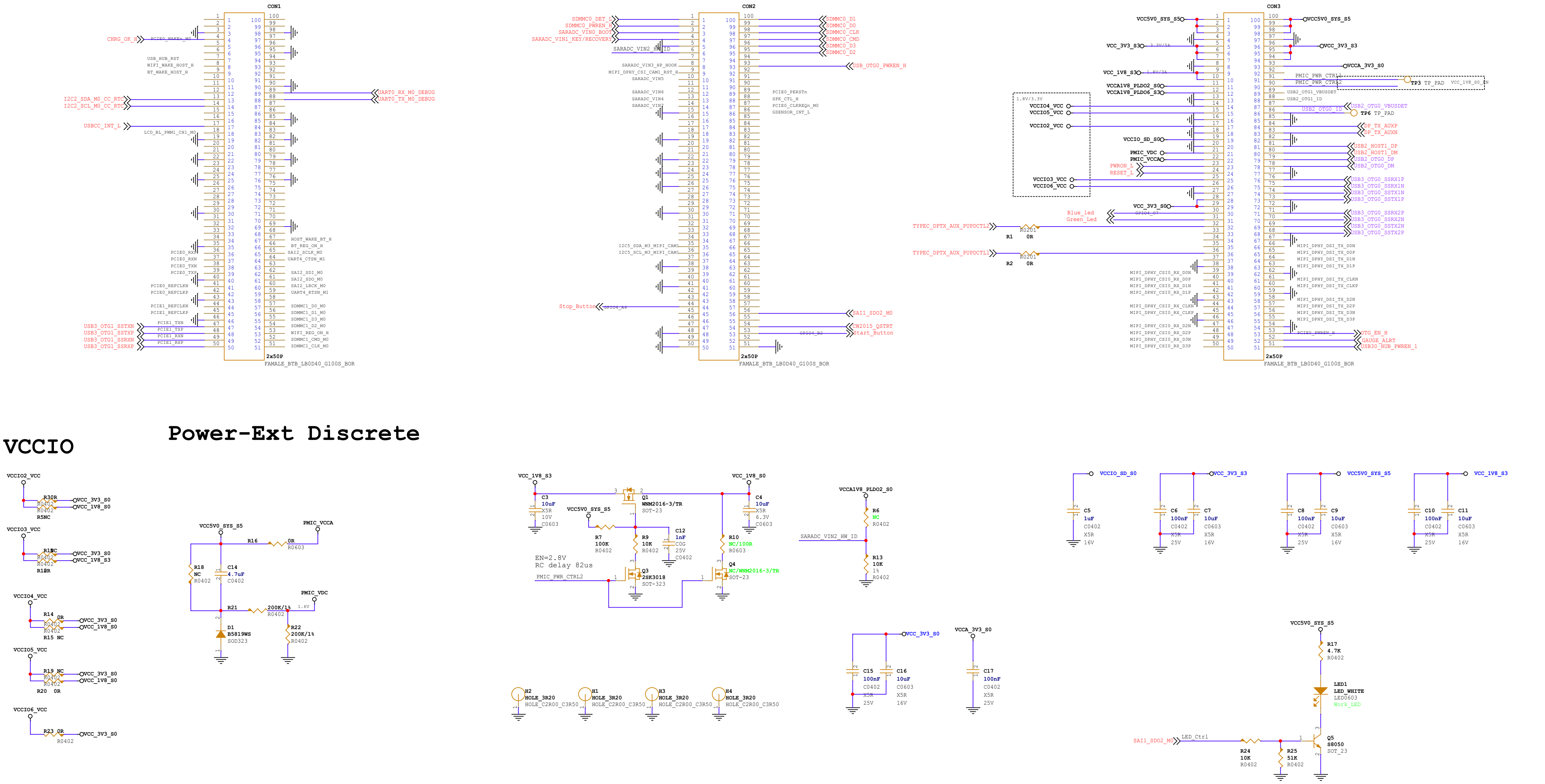
Revision History

Version	Date	By	Change Dsecription	Approved
V1.0	2026-9-5	Yang	1: Draft version;	

Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	01.Revision History				
Date:	Tuesday, September 08, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	1 of 8

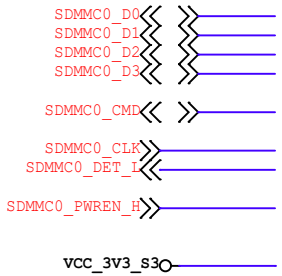
VCCIO

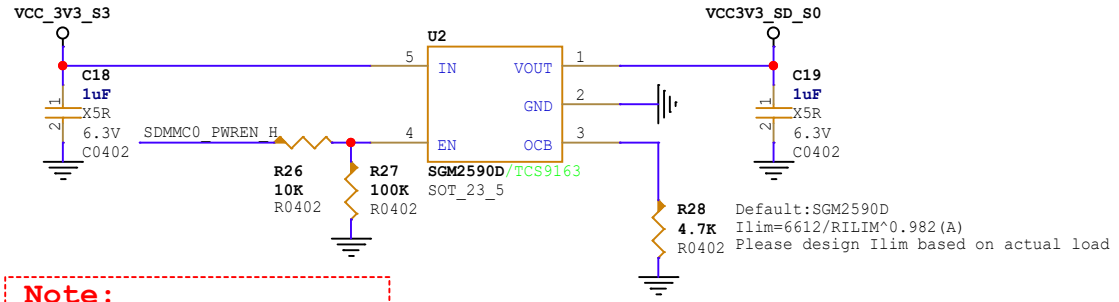
Power-Ext Discrete



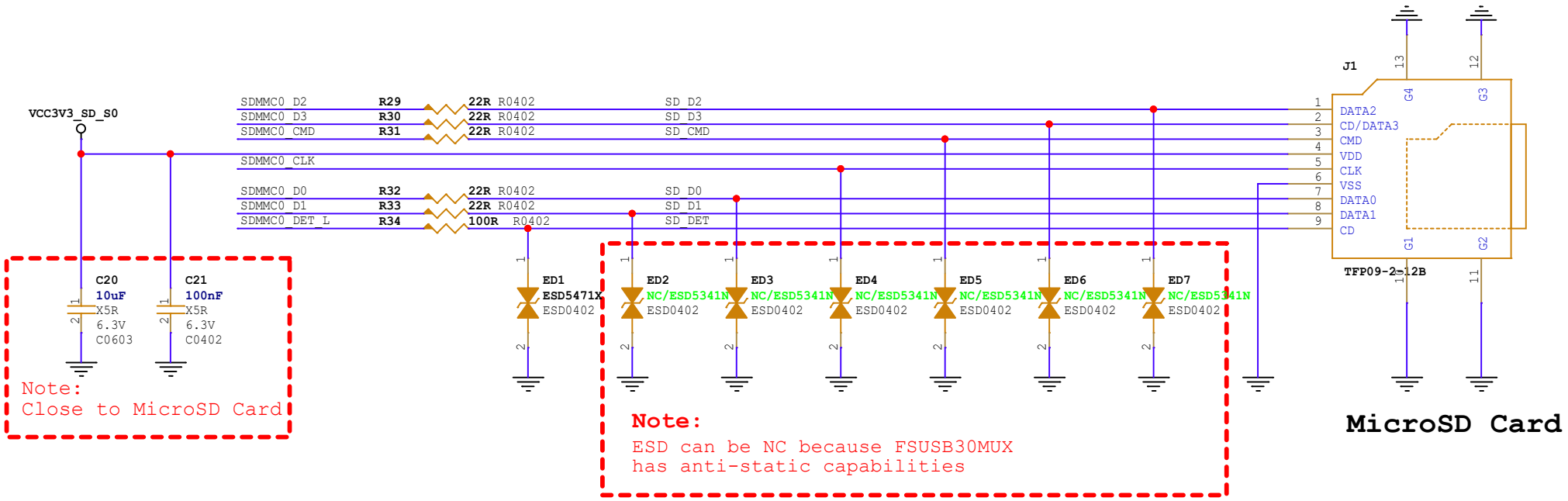
Shenzhen Sinoseen Technology Co., Ltd.			
Project:	MV22-V1.0		
File:	02.Connection1-2		
Date:	Thursday, September 10, 2026	Rev:	V1.0
Designed by: Yang	Reviewed by: <Checker>	Sheet:	2 of 8

TF CARD





Note:
SDMMC_PWREN=H VCC3V3_SD(Default)
SDMMC_PWREN=L VCC3V3_SD=0V



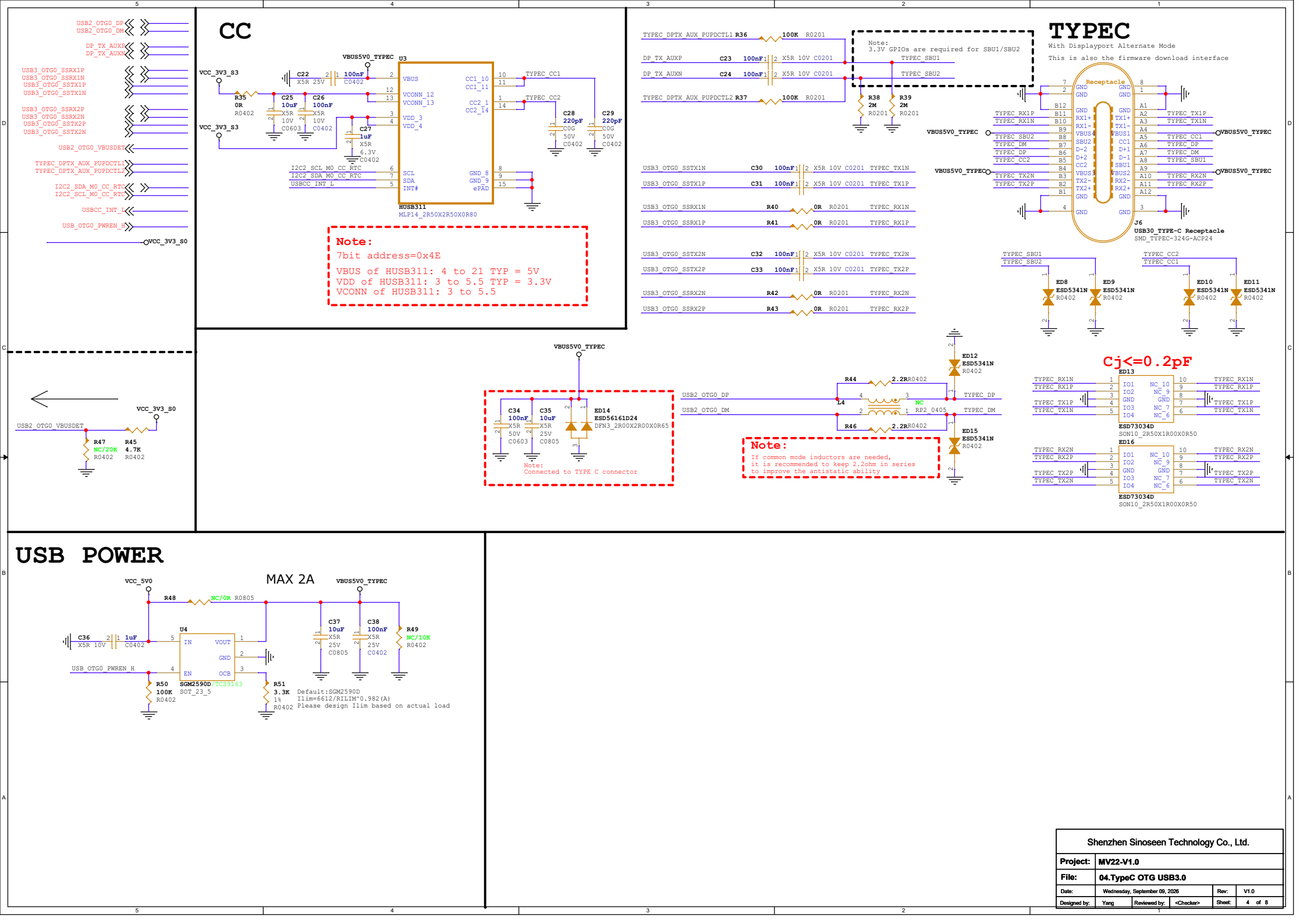
Note:
Close to MicroSD Card

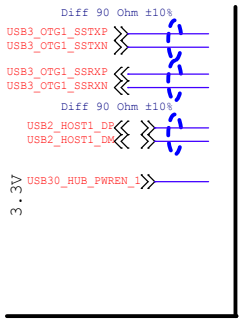
Note:
ESD can be NC because FSUSB30MUX
has anti-static capabilities

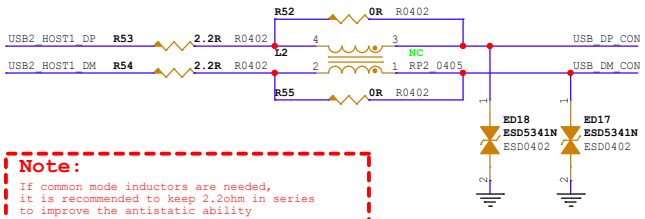
MicroSD Card

Note:
SDMMC_DET_L:
SDCARD PLUG: Pull-down to GND
SDCARD UNPLUG: Pull-up to PMUIO0_VCC1V8.

Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	03.Flash-MicroSD Card				
Date:	Tuesday, September 08, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	3 of 8

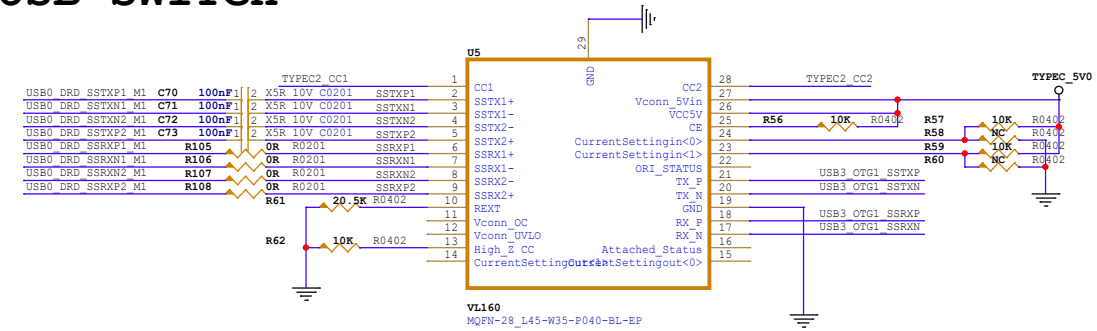

CC
TYPEC
With Displayport Alternate Mode
This is also the firmware download interface
USB POWER
MAX 2A
Note:
7bit address=0x4E
VBUS of HUSB311: 4 to 21 TYP = 5V
VDD of HUSB311: 3 to 5.5 TYP = 3.3V
VCONN of HUSB311: 3 to 5.5
Note:
3.3V GPIOs are required for SBU1/SBU2
Note:
Connected to TYPE C connector
Note:
If common mode inductors are needed,
it is recommended to keep 2.2ohm in series
to improve the antistatic ability
Cj<=0.2pF
Default:SGM2590D
Ilim=6612/RILIM^0.982(A)
Please design Ilim based on actual load
Shenzhen Sinoseen Technology Co., Ltd.
Project: MV22-V1.0
File: 04.TypeC OTG USB3.0
Date: Wednesday, September 09, 2026
Rev: V1.0
Designed by: Yang
Reviewed by: <Checker>
Sheet: 4 of 8



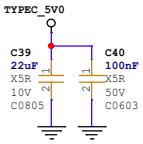


Note:
If common mode inductors are needed,
it is recommended to keep 2.2ohm in series
to improve the antistatic ability

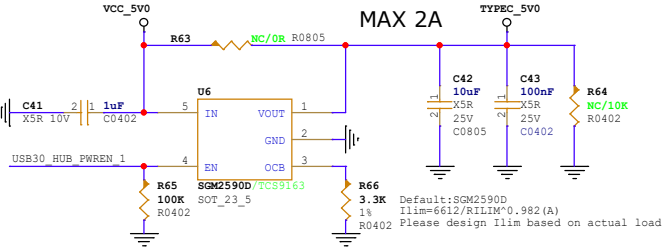
USB SWITCH



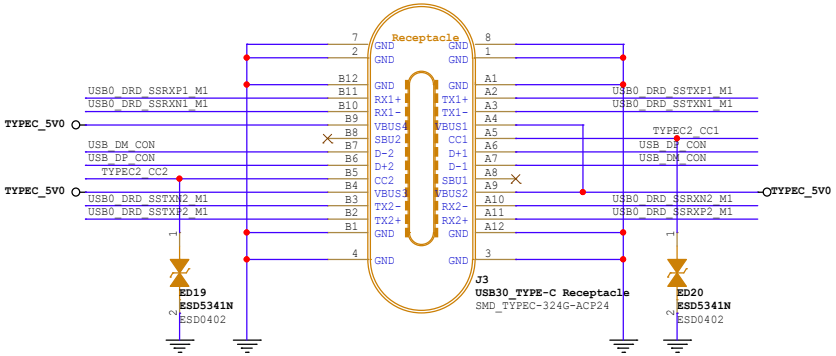
11: CC Support 3A
10: CC Support 1.5A
01: UNDEFINED
00: CC Support Legacy

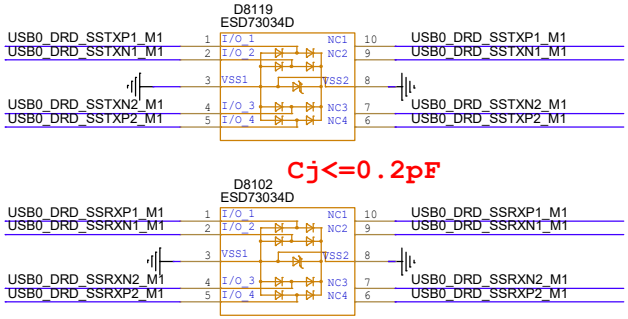


USB2 POWER



TYPEC

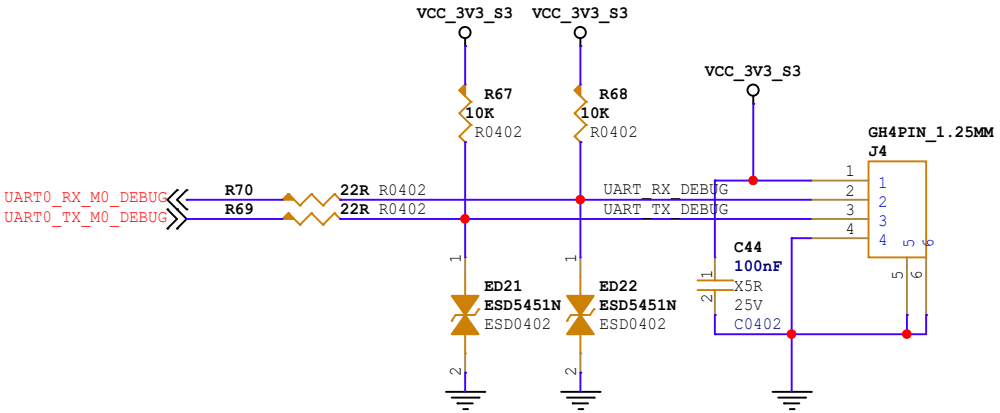




Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	05.TYpeC HOST USB3.0				
Date:	Tuesday, September 08, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	5 of 8

UART0_RX_M0_DEBUG
UART0_TX_M0_DEBUG

Debug UART_M0



Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	06.UART/DEBUG				
Date:	Tuesday, September 08, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	6 of 8

SARADC_VIN1_KEY/RECOVERY
RESET_L
PWRON_L
SARADC_VIN0_BOOT

Start_Button
Stop_Button
Blue_led
Green_Led

KEY

SARADC_VIN1_KEY/RECOVERY — R71 100R R0402 — SARADC_VIN1_KEY

ADC=40

TP7 TP_0.7

TP8 TP_0.7

Note:
Please reserve this circuit
if the RECOVERY_Key is not kept

ED23 ESD5451N R0402

SW5 TS-1109G KEY_4D5X4D5_H4D8_3P

RESET_L — R72 100R R0402 — TP9 TP_0.7

ED24 ESD5451N R0402

SARADC_VIN0_BOOT — R73 100R R0402 — TP10 TP_0.7

ED25 ESD5451N R0402

MASKROM Key

POWER Key

PWRON_L — R74 100R R0402 — POWER

ED26 ESD5451N R0402

SW2 TS-1109G KEY_4D5X4D5_H4D8_3P

Key&LED

Start_Button — R109 100R R0402

Stop_Button — R110 100R R0402

B_LED

G_LED

POWER

CON4 GH6PIN_0.8MM CONN-SMD_M0600RS-06-GN

ED31 ESD5451N R0402

ED32 ESD5451N R0402

ED27 ESD5451N R0402

ED28 ESD5451N R0402

Key

VCCIO2_VCC

Start_Button — R76 4.7K R0402 — R78 100R R0402

SW3 TS-1109G KEY_4D5X4D5_H4D8_3P

ED29 ESD5451N ESD0402

VCCIO2_VCC

Stop_Button — R77 4.7K R0402 — R79 100R R0402

SW4 TS-1109G KEY_4D5X4D5_H4D8_3P

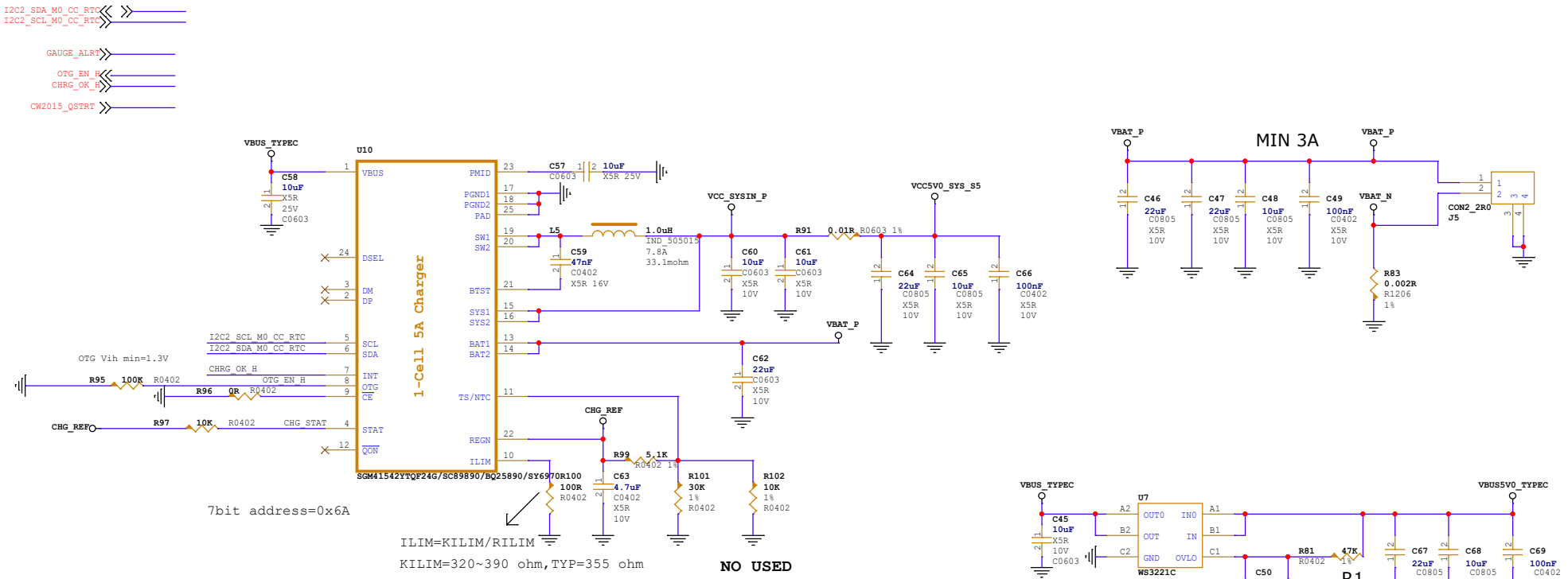
ED30 ESD5451N ESD0402

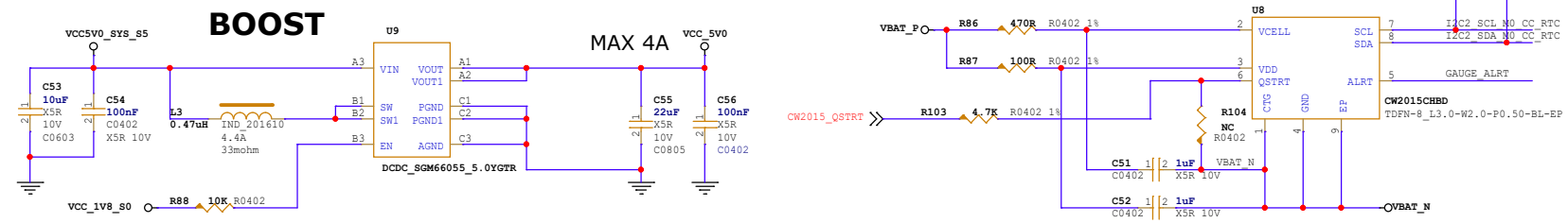
Blue_led — R75 4.7K — B_LED — D4

Green_Led — R80 4.7K — G_LED — D5

Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	07.Key-PowerON/Reset				
Date:	Saturday, September 19, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	7 of 8

该网络名为保持和之前设计同名称，实际电压为电池电压





Shenzhen Sinoseen Technology Co., Ltd.					
Project:	MV22-V1.0				
File:	08.Power				
Date:	Wednesday, September 09, 2026			Rev:	V1.0
Designed by:	Yang	Reviewed by:	<Checker>	Sheet:	9 of 8