Tang Nano 20K

Revision History

Version	Date	Change Note
3850	2022/12/24	Original edition
3920	2023/02/22	Shorten PCB width to 888mil Changed pin assignment of BL616.
3921	2023/03/27	Fix some Silkscreen issuses First public release version.

GW2AR-18

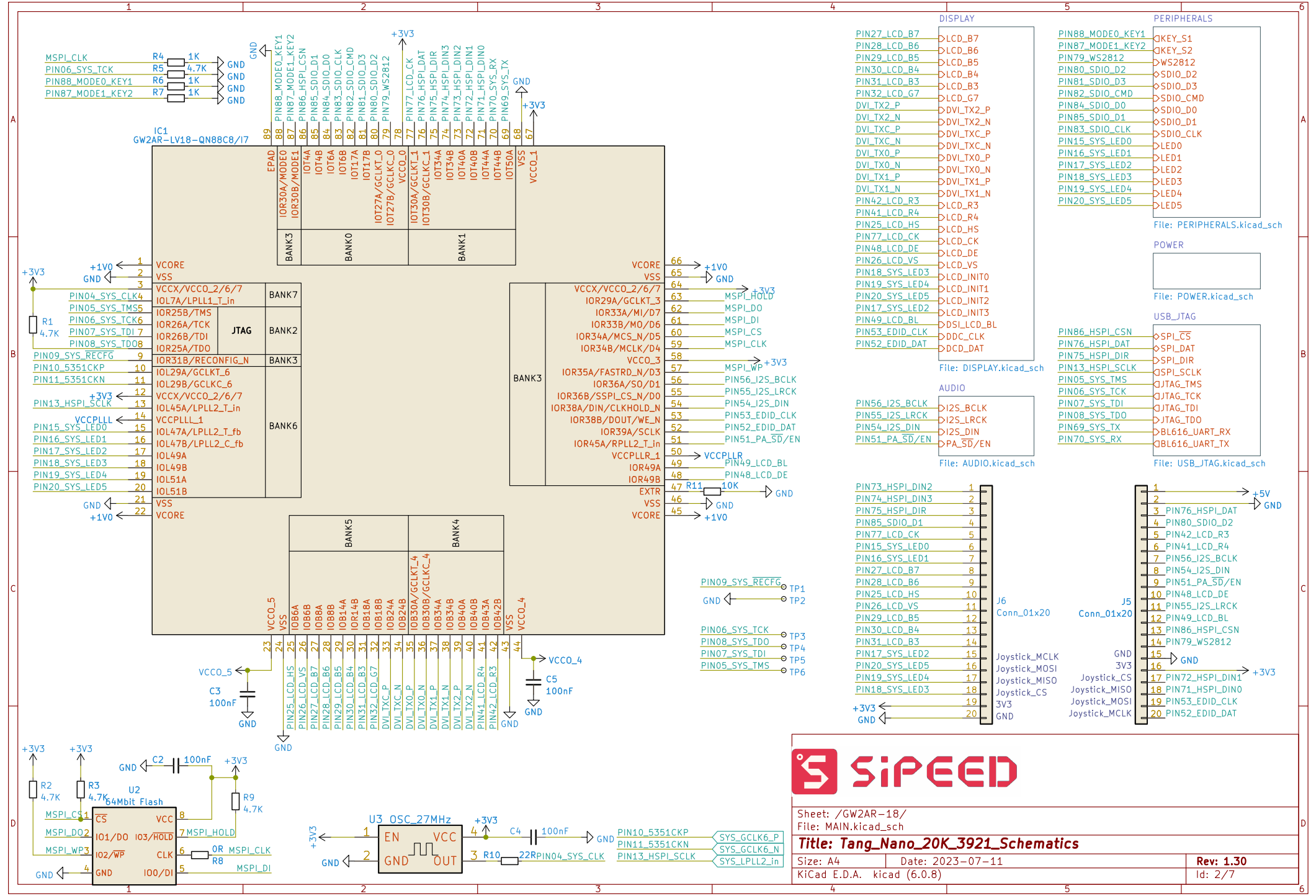
File: MAIN.kicad_sch

SiPEED

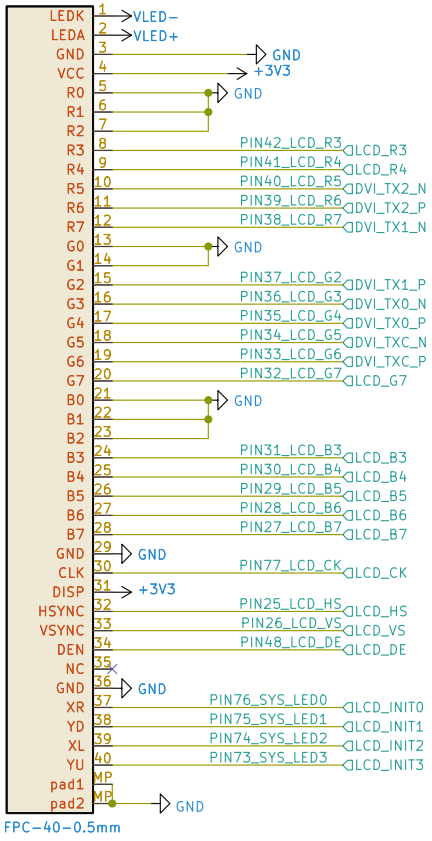
Sheet: /
File: Tang_Nano_20K_3921.kicad_sch

Title: Tang_Nano_20K_3921_Schematics

Size: A4	Date: 2023-07-11	**Rev: 1.30**
KiCad E.D.A. kicad (6.0.8)		Id: 1/7

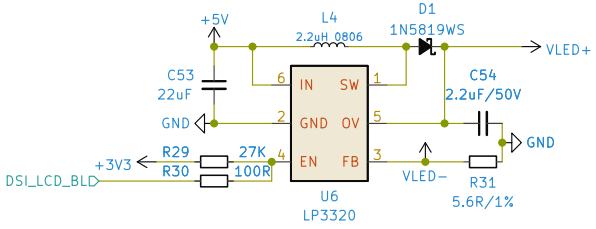

IC1
GW2AR-LV18-QN88C8/I7
BANK0
BANK1
BANK2
BANK3
BANK4
BANK5
BANK6
BANK7
JTAG
DISPLAY
File: DISPLAY.kicad_sch
PERIPHERALS
File: PERIPHERALS.kicad_sch
POWER
File: POWER.kicad_sch
AUDIO
File: AUDIO.kicad_sch
USB_JTAG
File: USB_JTAG.kicad_sch
U2
64Mbit Flash
U3 OSC_27MHz
J5
Conn_01x20
J6
Conn_01x20
SiPEED
Sheet: /GW2AR-18/
File: MAIN.kicad_sch
Title: Tang_Nano_20K_3921_Schematics
Size: A4
Date: 2023-07-11
Rev: 1.30
KiCad E.D.A. kicad (6.0.8)
Id: 2/7

RGB LCD

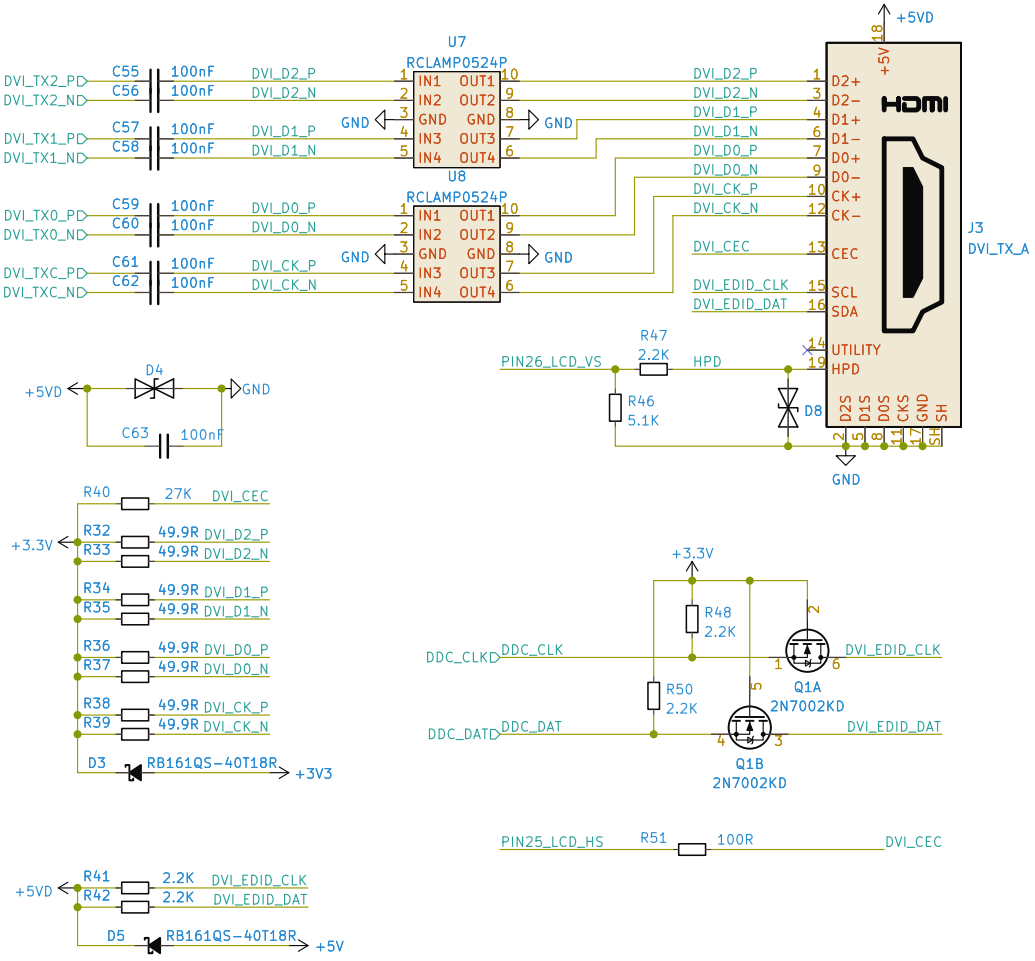


FPC−40−0.5mm

LCD BACKLIGHT

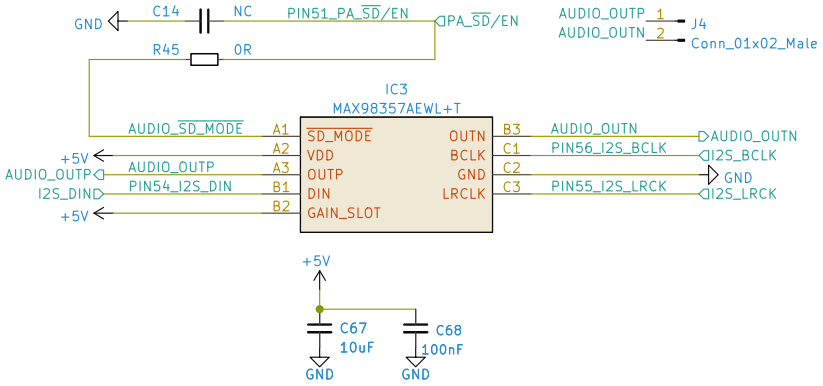


DVI TX



Sheet: /GW2AR−18/DISPLAY/		
File: DISPLAY.kicad_sch		
Title: Tang_Nano_20K_3921_Schematics		
Size: A4	Date: 2023−07−11	**Rev: 1.30**
KiCad E.D.A. kicad (6.0.8)		Id: #/7

DAC + Audio PA



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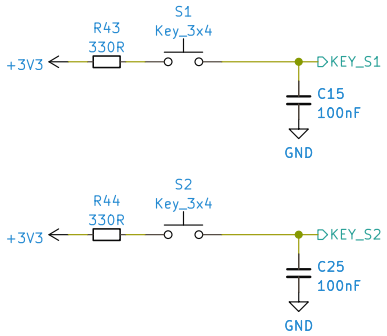
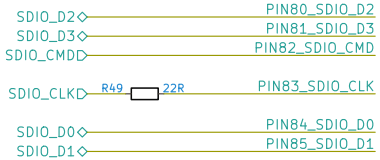
Title: Tang_Nano_20K_3921_Schematics

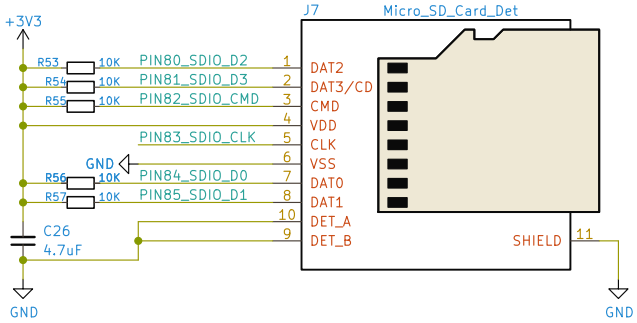
Size: A4	Date: 2023-07-11	**Rev: 1.30**
KiCad E.D.A. kicad (6.0.8)		Id: #/7

Button x 2

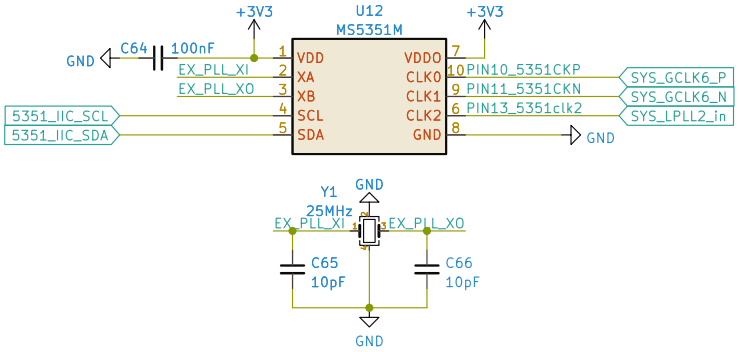




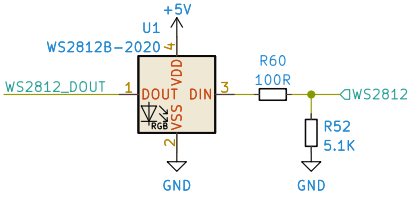
MICRO SD CARD



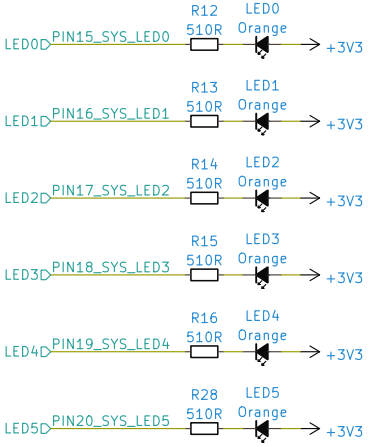
AUX_PLL



WS2812



LED



SiPEED

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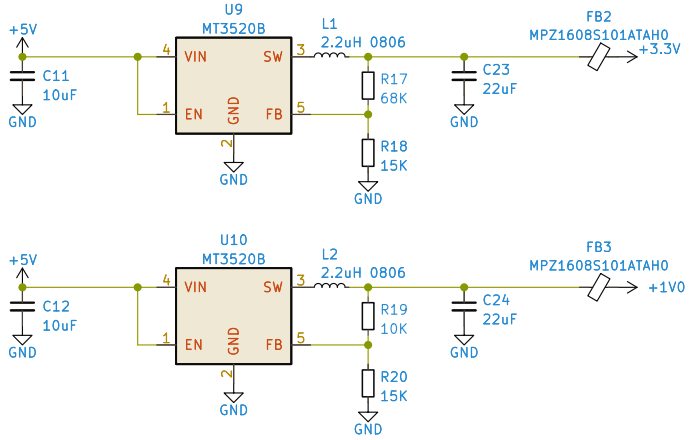
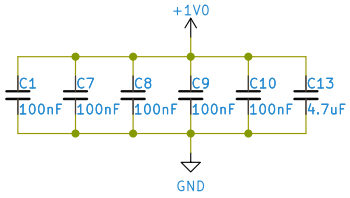
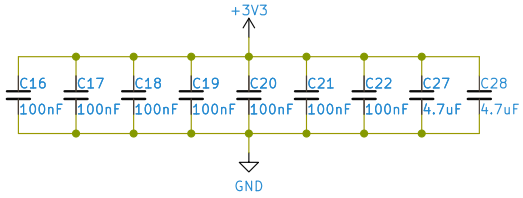
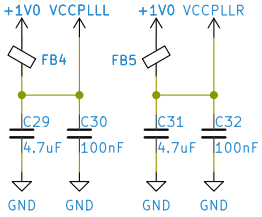
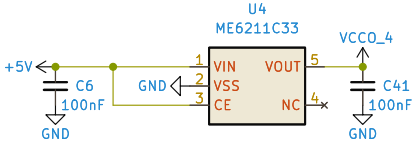
Size: A4	Date: 2023-07-11	**Rev: 1.30**
KiCad E.D.A. kicad (6.0.8)		Id: #/7

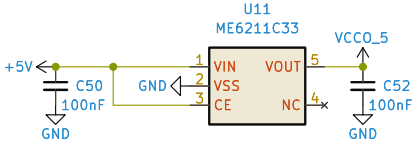












SiPEED

Sheet: /GW2AR-18/POWER/
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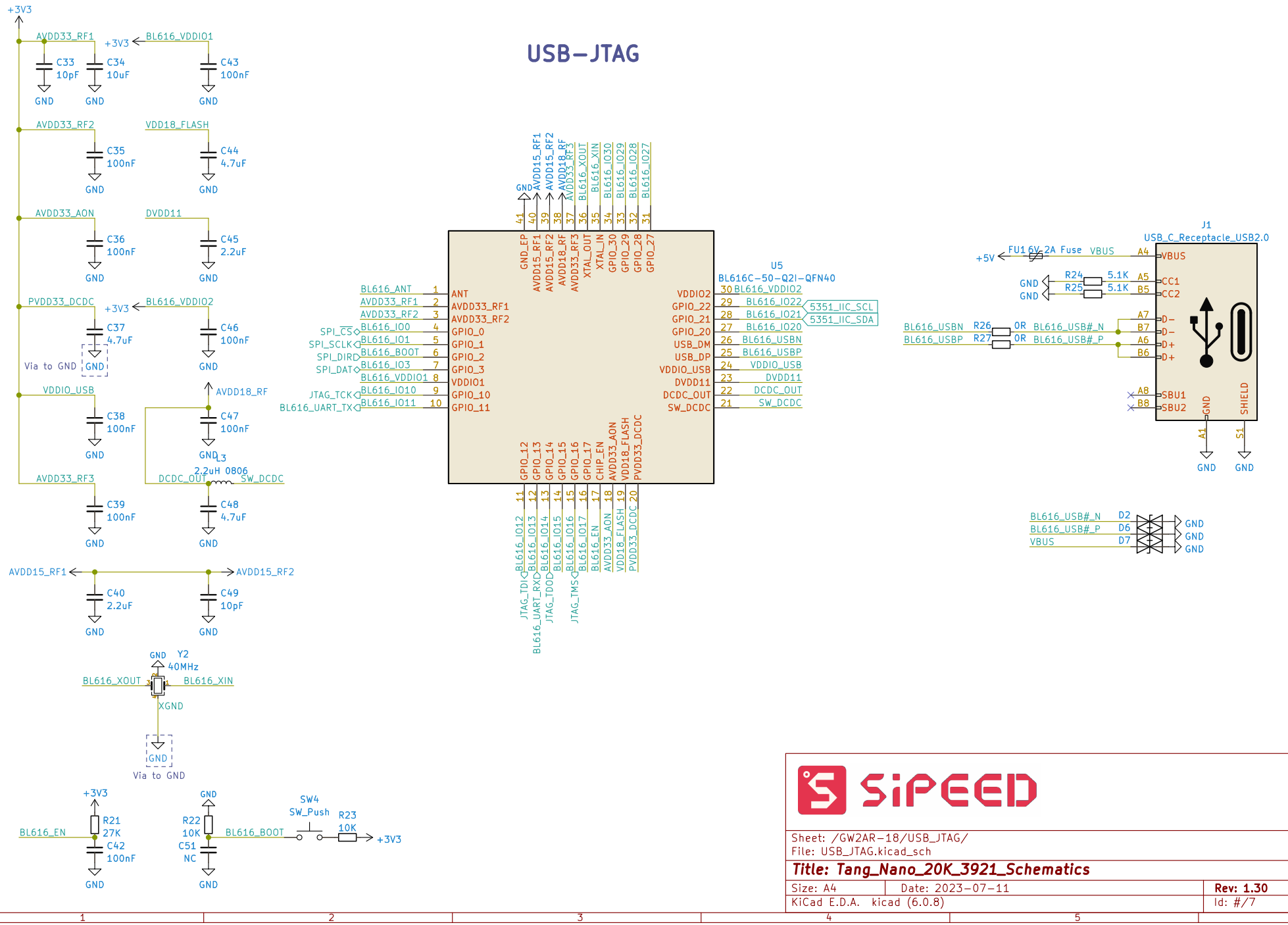
USB-JTAG
U5
BL616C-50-Q2I-QFN40
J1
USB_C_Receptacle_USB2.0
SiPEED
Sheet: /GW2AR-18/USB_JTAG/
File: USB_JTAG.kicad_sch
Title: Tang_Nano_20K_3921_Schematics
Size: A4
Date: 2023-07-11
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Id: #/7