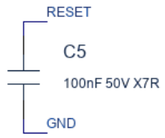
Main Circuit And Support

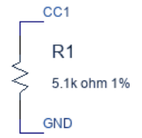
SW1
Tactile switch 5.1x5.1mm SMD



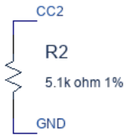
SW2
Tactile switch 5.1x5.1mm SMD

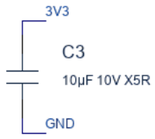


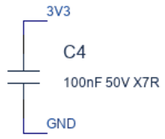




Main Circuit And Support









Main Circuit And Support

DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

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PROJECT / DOCUMENT			STATUS
Nrf52840 Usbc Ble Board			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-M14-SCH-001		A3 / LANDSCAPE	1 of 3

Power And Indicators

U1
E73-2G4M08S1C nRF52840 module (BLE 5, 802.15.4, USB), PCB antenna

D+	D+	P0.15	LED
D-	D-	P0.16	P0.16
GND	GND (all)	P0.18 (..	RESET
P0.02	P0.02	P0.20	P0.20
P0.03	P0.03	P0.28	P0.28
P0.04	P0.04	P0.29	P0.29
P0.05	P0.05	P0.30	P0.30
P0.06	P0.06	P0.31	P0.31
P0.08	P0.08	P1.00	BTN
SCL	P0.11 (..	SWCLK	SWCLK
SDA	P0.12 (..	SWDIO	SWDIO
P0.13	P0.13	VBUS	VBUS
P0.14	P0.14	VCC (VDD)	3V3

U2
AP2112K-3.3 LDO 600mA

1 VIN	VBUS
2 GND	GND
3 EN	VBUS
4 NC	NC_U2
5 VOUT	3V3

C1
VBUS
10µF 10V X5R
GND

D1
D1_A
Red LED
GND

Power And Indicators

D2
LED2_A
Red LED
GND

R6
LED
1k ohm 1%
LED2_A

C2
3V3
10µF 10V X5R
GND

DESIGN NOTES

Matching net labels identify connected signals.

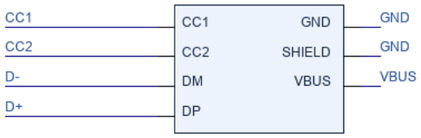
Assembly and DNP details are stored with each component.

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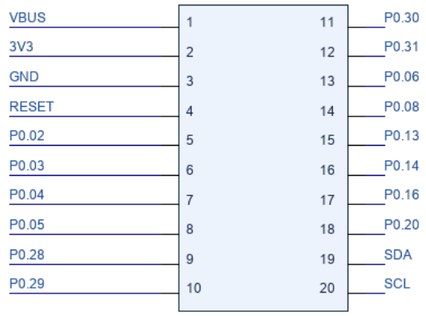
PROJECT / DOCUMENT: Nrf52840 Usbc Ble Board			STATUS: DESIGN REVIEW
DRAWN BY: ElectroTrical	CHECKED BY: -	DATE: 2026-11-12	REVISION: A
DOCUMENT NUMBER: ET-M14-SCH-002		FORMAT: A3 / LANDSCAPE	SHEET: 2 of 3

Connectors

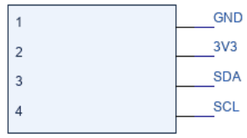
J1
USB-C 16P receptacle (USB 2.0)



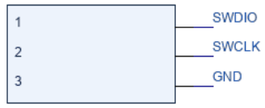
J3 DNP
2.54mm male pin header (ship loose)



J4
JST SH 4P R/A (Qwiic/STEMMA QT)



J5 DNP
2.54mm male pin header (ship loose)



DESIGN NOTES

Matching net labels identify connected signals.

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Nrf52840 Usbc Ble Board			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-M14-SCH-003		A3 / LANDSCAPE	3 of 3