Quill nRF52840 Mesh

Devlopment Board for Compact IoT Projects
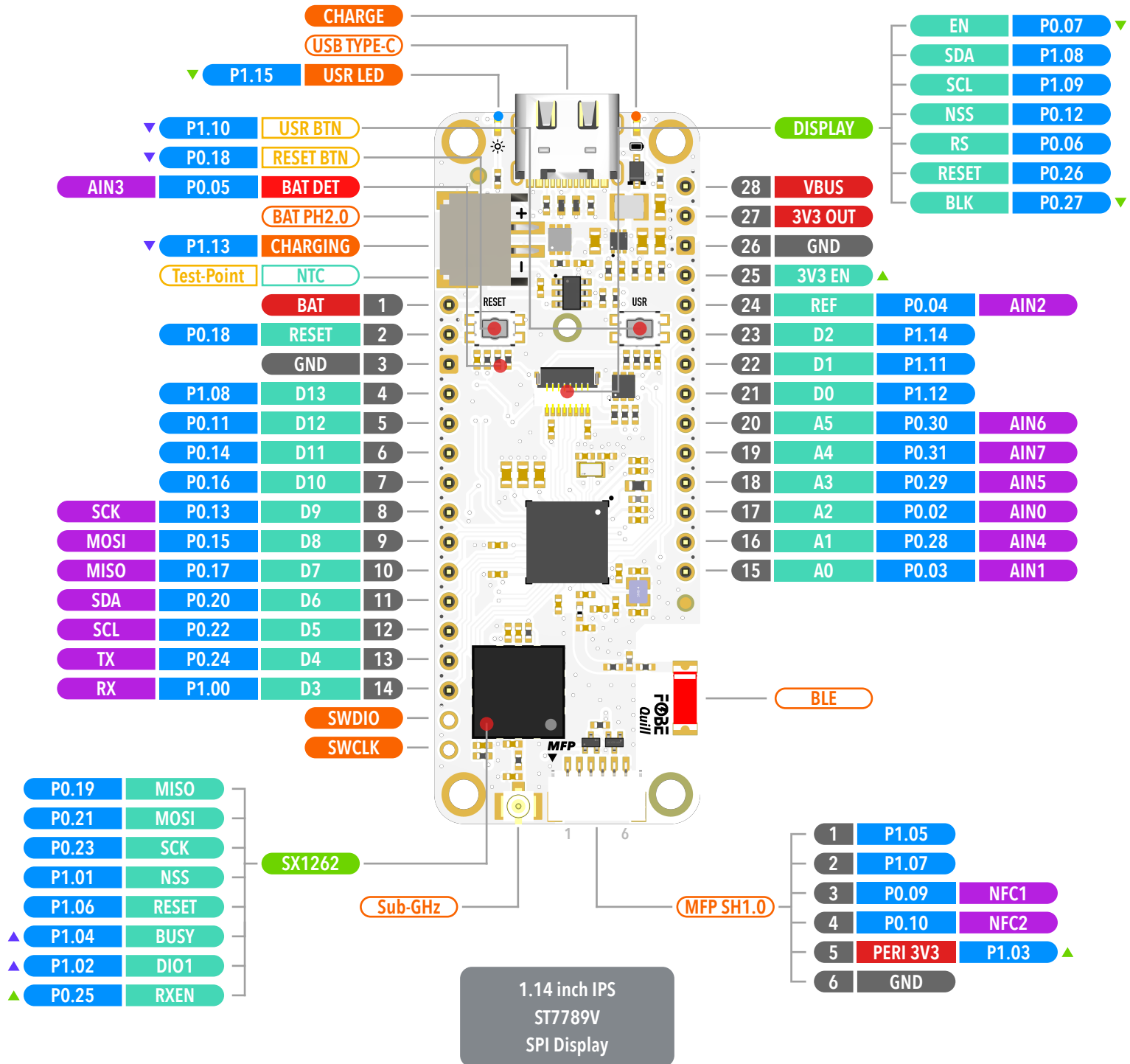
- 🔴 **3.3V IO Operating Vlotage**
- ▼ **Pull-Down to enable**
- ▲ **Pull-Up to enable**
- ▼ **Low level is detected**
- ▲ **High level is detected**

CHARGE
USB TYPE-C
▼ P1.15 — USR LED
▼ P1.10 — USR BTN
▼ P0.18 — RESET BTN
AIN3 — P0.05 — BAT DET
BAT PH2.0
▼ P1.13 — CHARGING
Test-Point — NTC

	BAT	1	
P0.18	RESET	2	
	GND	3	
P1.08	D13	4	
P0.11	D12	5	
P0.14	D11	6	
P0.16	D10	7	
SCK / P0.13	D9	8	
MOSI / P0.15	D8	9	
MISO / P0.17	D7	10	
SDA / P0.20	D6	11	
SCL / P0.22	D5	12	
TX / P0.24	D4	13	
RX / P1.00	D3	14	

SWDIO
SWCLK

DISPLAY

EN	P0.07 ▼
SDA	P1.08
SCL	P1.09
NSS	P0.12
RS	P0.06
RESET	P0.26
BLK	P0.27 ▼

28	VBUS		
27	3V3 OUT		
26	GND		
25	3V3 EN ▲		
24	REF	P0.04	AIN2
23	D2	P1.14	
22	D1	P1.11	
21	D0	P1.12	
20	A5	P0.30	AIN6
19	A4	P0.31	AIN7
18	A3	P0.29	AIN5
17	A2	P0.02	AIN0
16	A1	P0.28	AIN4
15	A0	P0.03	AIN1

BLE

SX1262

P0.19	MISO
P0.21	MOSI
P0.23	SCK
P1.01	NSS
P1.06	RESET
▲ P1.04	BUSY
▲ P1.02	DIO1
▲ P0.25	RXEN

Sub-GHz

MFP SH1.0

1	P1.05	
2	P1.07	
3	P0.09	NFC1
4	P0.10	NFC2
5	PERI 3V3	P1.03 ▲
6	GND	

1.14 inch IPS ST7789V SPI Display

Only 3.7V Li-Ion/LiPo battery.
The battery voltage is measured through a voltage divider consisting of 1 MΩ (top) and 1.5 MΩ (bottom) resistors connected to the ADC pin.

FOBE

Quill nRF52840 Mesh

Devlopment Board for Compact IoT Projects

R1.91mm
2.54mm
9.00mm
1.27mm
1.60mm
R1.27mm
10.90mm
2.54mm
RESET
USR
60.96mm
55.88mm
MFP
FoBE
Quill
21.59mm
6.35mm
2.54mm
R2.54mm
7.24mm
8.89mm
17.78mm
22.86mm

H2.56mm
H5.60mm
H1.38mm
H1.38mm
H3.15mm
H1.60mm

FOBE