1) schematic with PCF8523 and battery

32.768KHz (12.5pF)

PCF8523

1	OSCI	
2	OSCO	
3	VBAT	VDD 8
4	VSS	INT1 7
		SCL 6
		SDA 5

CR2032 (3V)

GND GND

4k7 4k7

100nF

GND

GND

ZERO

1	3V3
3	SDA
5	SCL
9	GND

PICO

36	3V3
6	SDA
7	SCL
8	GND

---

2) schematic with PCF8523 and supercapacitors

1F/2V7

1F/2V7

32.768KHz (12.5pF)

100R

LL103B (schottky)

PCF8523

1	OSCI	
2	OSCO	
3	VBAT	VDD 8
4	VSS	INT1 7
		SCL 6
		SDA 5

GND

GND

GND

4k7 4k7

100nF

GND

ZERO

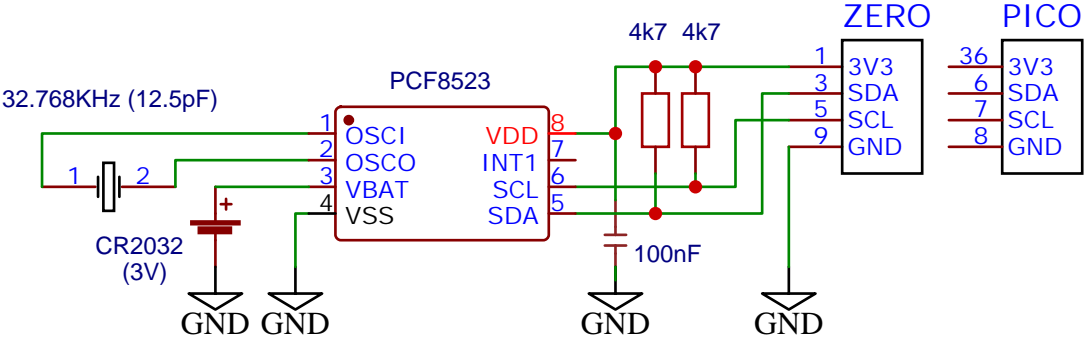| 1 | 3V3 |
3	SDA
5	SCL
9	GND

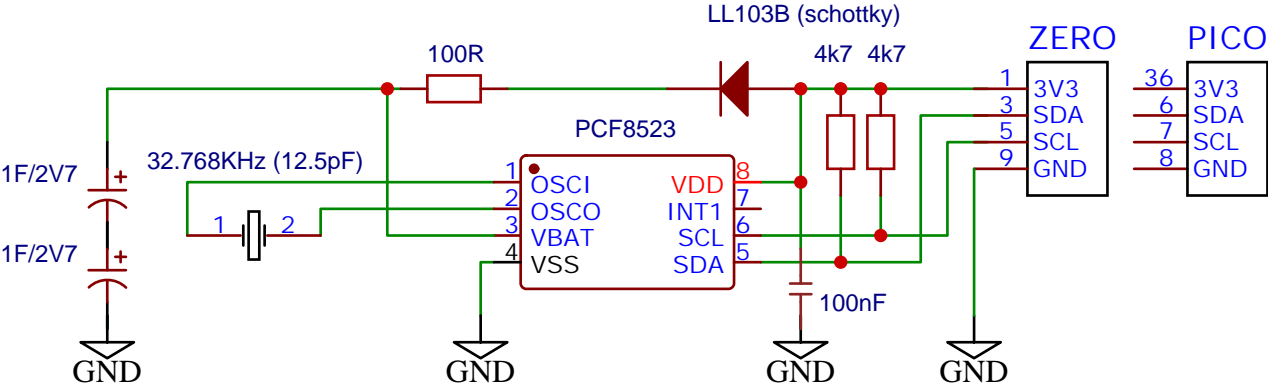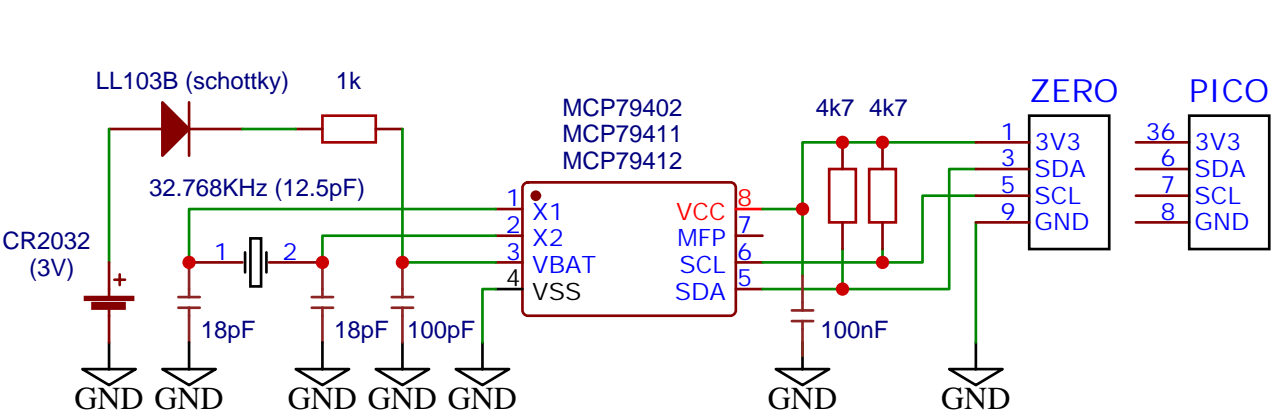**PICO**

36	3V3
6	SDA
7	SCL
8	GND

---

1) schematic with PCF8583 and battery
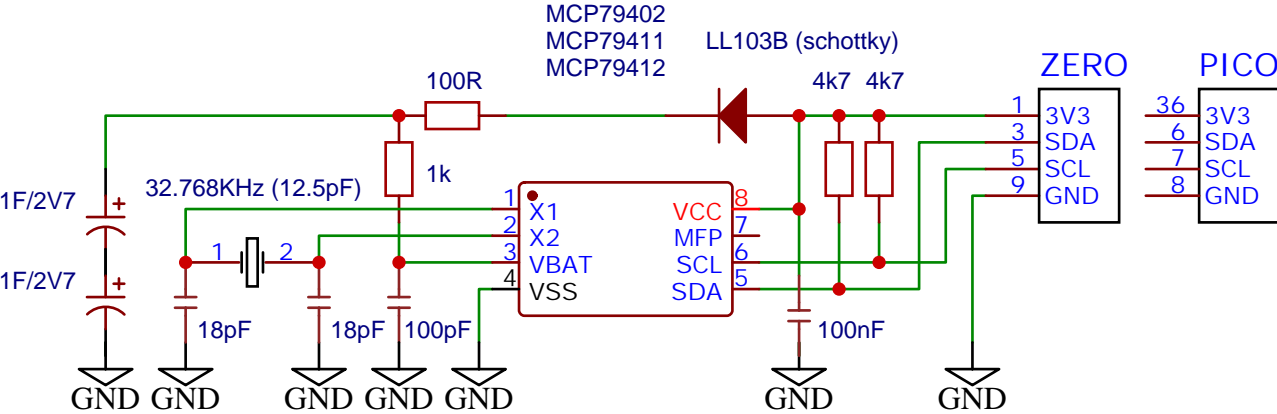
2) schematic with PCF8583 and supercapacitors

LL103B (schottky)
LL103B (schottky)
12-15pF
PCF8583
4k7 4k7
ZERO
PICO

CR2032 (3V)
32.768KHz
100nF
GND GND GND GND

OSCI
OSCO
A0
VSS
VDD
INT#
SCL
SDA

1 3V3
3 SDA
5 SCL
9 GND

36 3V3
6   SDA
7   SCL
8   GND

LL103B (schottky)
12-15pF
LL103B (schottky)
4k7 4k7
ZERO
PICO

100R
1F/2V7
1F/2V7
32.768KHz
PCF8583
100nF
GND GND GND GND

OSCI
OSCO
A0
VSS
VDD
INT#
SCL
SDA

1 3V3
3 SDA
5 SCL
9 GND

36 3V3
6   SDA
7   SCL
8   GND

TITLE:	PCF8583 with Raspberry Pi	REV:	1.0
Company:		Sheet:	1/1
Date:	2022-01-08	Drawn By:	Dan Skareda

EasyEDA

1) schematic with MCP794xx and battery

LL103B (schottky)   1k

CR2032 (3V)

32.768KHz (12.5pF)

18pF   18pF   100pF

MCP79402
MCP79411
MCP79412

X1
X2
VBAT
VSS

VCC
MFP
SCL
SDA

4k7   4k7

100nF

ZERO   PICO

	ZERO		PICO
1	3V3	36	3V3
3	SDA	6	SDA
5	SCL	7	SCL
9	GND	8	GND

GND GND   GND GND GND   GND   GND

2) schematic with MCP794xx and supercapacitors

MCP79402
MCP79411
MCP79412

100R   LL103B (schottky)

1F/2V7

1F/2V7

32.768KHz (12.5pF)

1k

18pF   18pF   100pF

X1
X2
VBAT
VSS

VCC
MFP
SCL
SDA

4k7   4k7

100nF

ZERO   PICO

	ZERO		PICO
1	3V3	36	3V3
3	SDA	6	SDA
5	SCL	7	SCL
9	GND	8	GND

GND GND   GND GND GND   GND   GND

3) schematic with MCP7940M and battery

LL103B (schottky)   LL103B (schottky)   4k7   4k7

CR2032 (3V)

32.768KHz (12.5pF)

MCP7940M

X1
X2
NC
VSS

VCC
MFP
SCL
SDA

18pF   18pF

100nF

ZERO   PICO

	ZERO		PICO
1	3V3	36	3V3
3	SDA	6	SDA
5	SCL	7	SCL
9	GND	8	GND

GND GND   GND GND   GND   GND
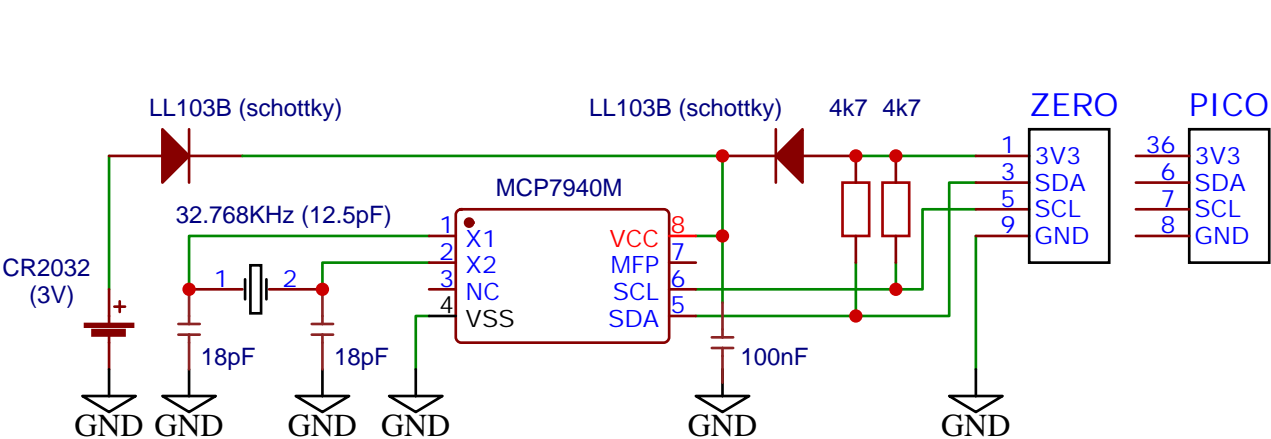
4) schematic with MCP7940M and supercapacitors

LL103B (schottky)

1F/2V7

1F/2V7

100R   LL103B (schottky)   4k7   4k7

32.768KHz (12.5pF)

MCP7940M

X1
X2
NC
VSS

VCC
MFP
SCL
SDA

18pF   18pF

100nF

ZERO   PICO

	ZERO		PICO
1	3V3	36	3V3
3	SDA	6	SDA
5	SCL	7	SCL
9	GND	8	GND

GND GND   GND GND   GND   GND

TITLE: MCP794xx with Raspberry Pi

REV: 1.0

Company:

Sheet: 1/1

Date: 2022-01-01   Drawn By: Dan Skareda

EasyEDA
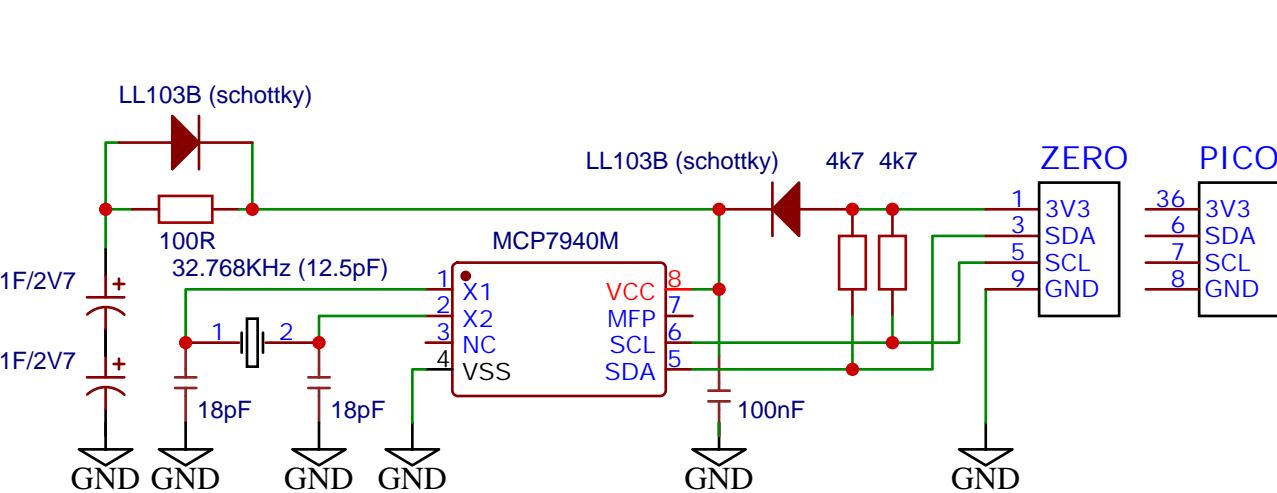
1) schematic with PCF8563 and battery

LL103B (schottky)

LL103B (schottky)

4k7   4k7

ZERO

1	3V3
3	SDA
5	SCL
9	GND

PICO

36	3V3
6	SDA
7	SCL
8	GND

PCF8563

32.768KHz

1	OSCI	VDD	8
2	OSCO	CLKOUT	7
3	INT	SCL	6
4	VSS	SDA	5

CR2032
(3V)

18pF

100nF

GND   GND GND   GND   GND
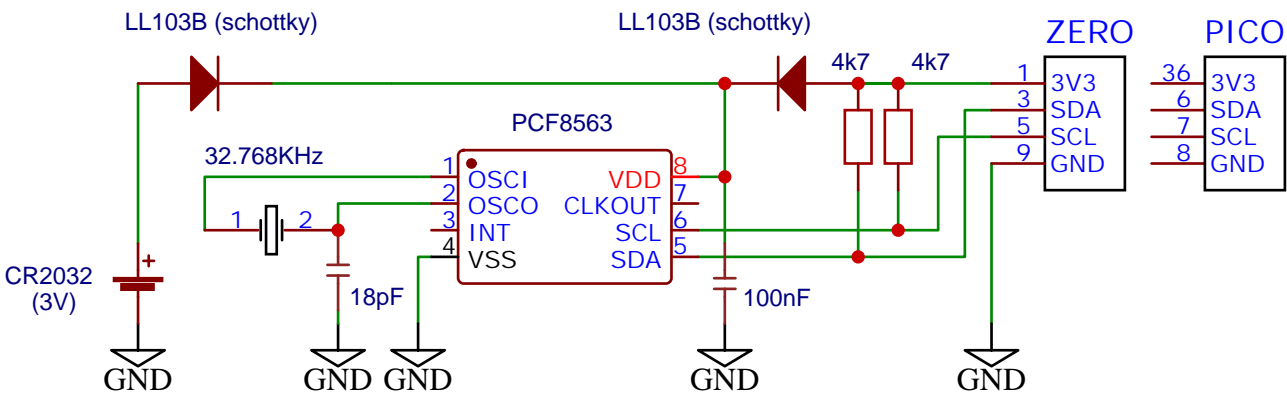
2) schematic with PCF8563 and supercapacitors

LL103B (schottky)

LL103B (schottky)

4k7   4k7

ZERO

1	3V3
3	SDA
5	SCL
9	GND

PICO

36	3V3
6	SDA
7	SCL
8	GND

100R

1F/2V7

1F/2V7

PCF8563

32.768KHz

1	OSCI	VDD	8
2	OSCO	CLKOUT	7
3	INT	SCL	6
4	VSS	SDA	5

18pF

100nF

GND   GND GND   GND   GND

TITLE:

PCF8563 with Raspberry Pi

REV: 1.0

Company:

Sheet: 1/1

Date: 2022-01-08   Drawn By: Dan Skareda

1) schematic with DS3231 and battery

2) schematic with DS3231 and supercapacitors