ETR CELLMETER SLAVE

LEGEND
- Supply
- MCU
- Device
- Connector

TECH RACING
FORMULA STUDENT TEAM

Master supply

12 VDC

Buck (MPQ4323)

5 VDC

LDO

3V3

Charge IC (MP2770)

I2C from MCU

K2

K1

TCell

NTC1

VCell+

VCell−

ADC (MCP3302)

Level shifter (ST2378ETTR)

SPI2

5 VDC

To MCU

Current sensor (MCQ1805)

DAC

3V3

TQ

NTC3

Slave MCU

To K1
To K2
User LED

From current sensor

SPI1

Master data

RLoad (0.25R)