Schematic of Controller
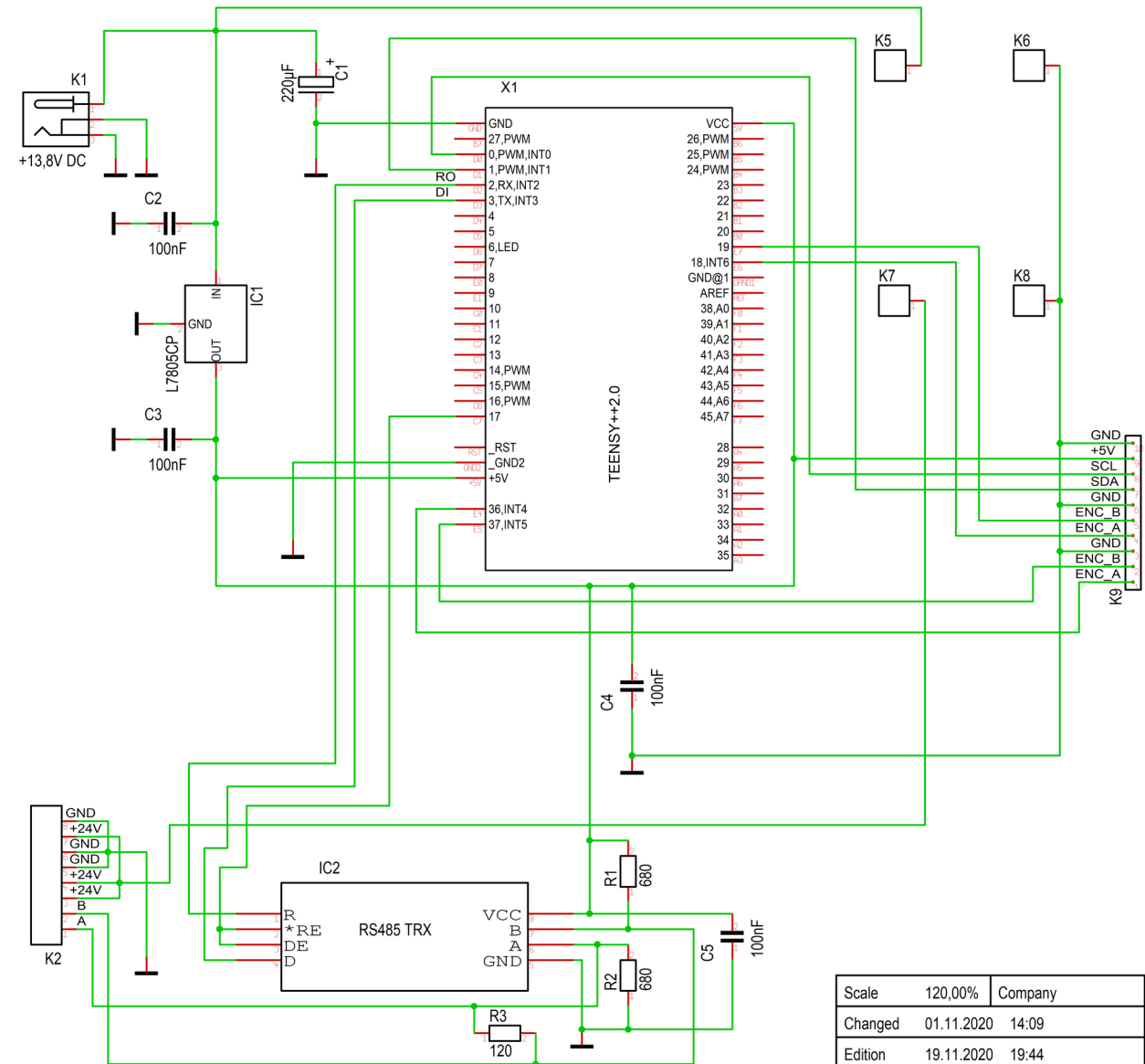
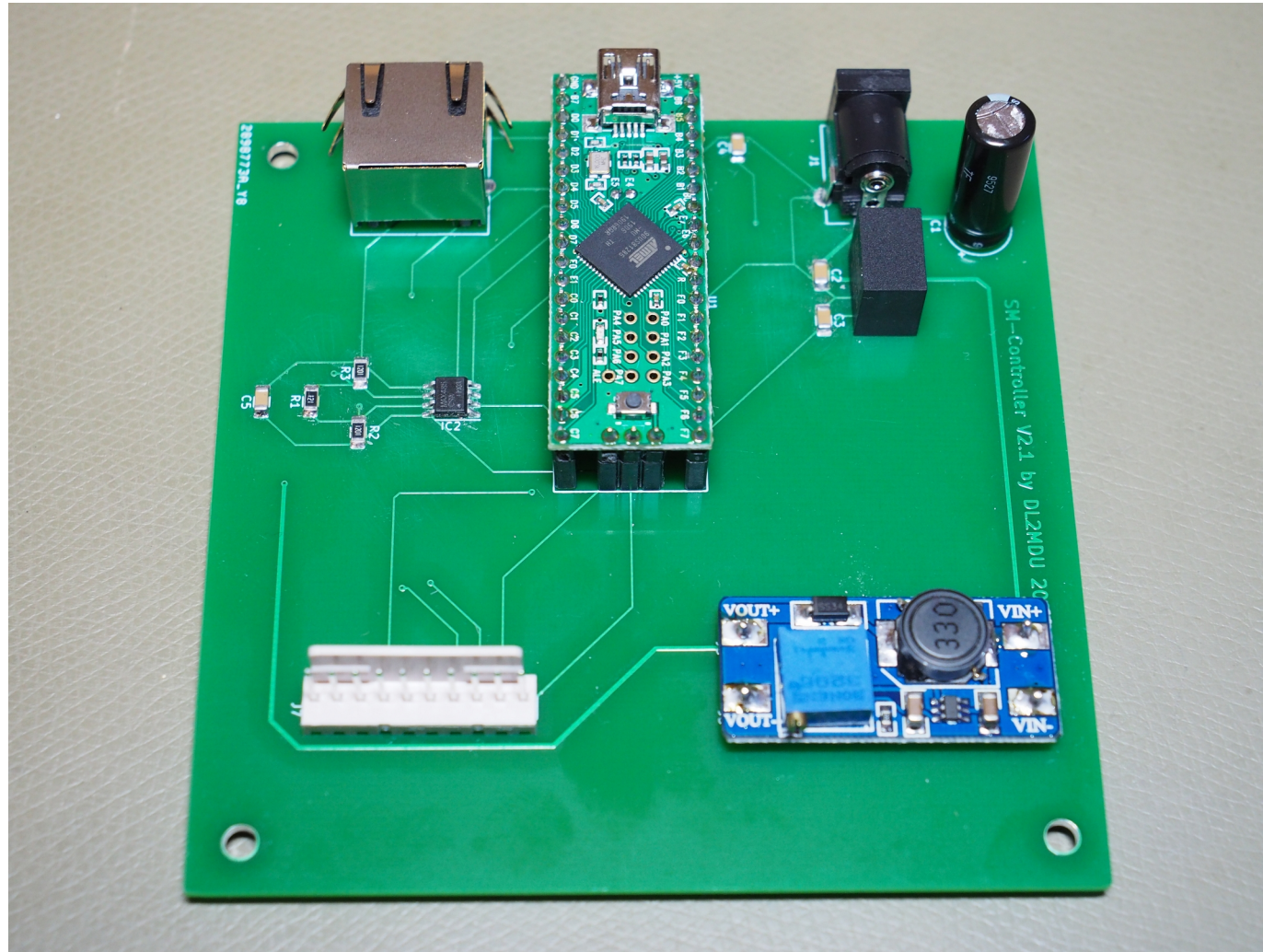

Scale	120,00%	Company		Drawn: Ch. Friess	Sheet 1 of 1
Changed	01.11.2020	14:09		Title:	
Edition	19.11.2020	19:44		S-Match Controller 2.0 by DL2MDU	
File	SMC_V2_0.T3001			Project: Remote S-Match Coupler	

S-Match Coupler

Controller
with Teensy++2.0

and DC/DC Converter
(blue PCB)

10-pin Conector to
LCD and Encoder

S-Match Coupler
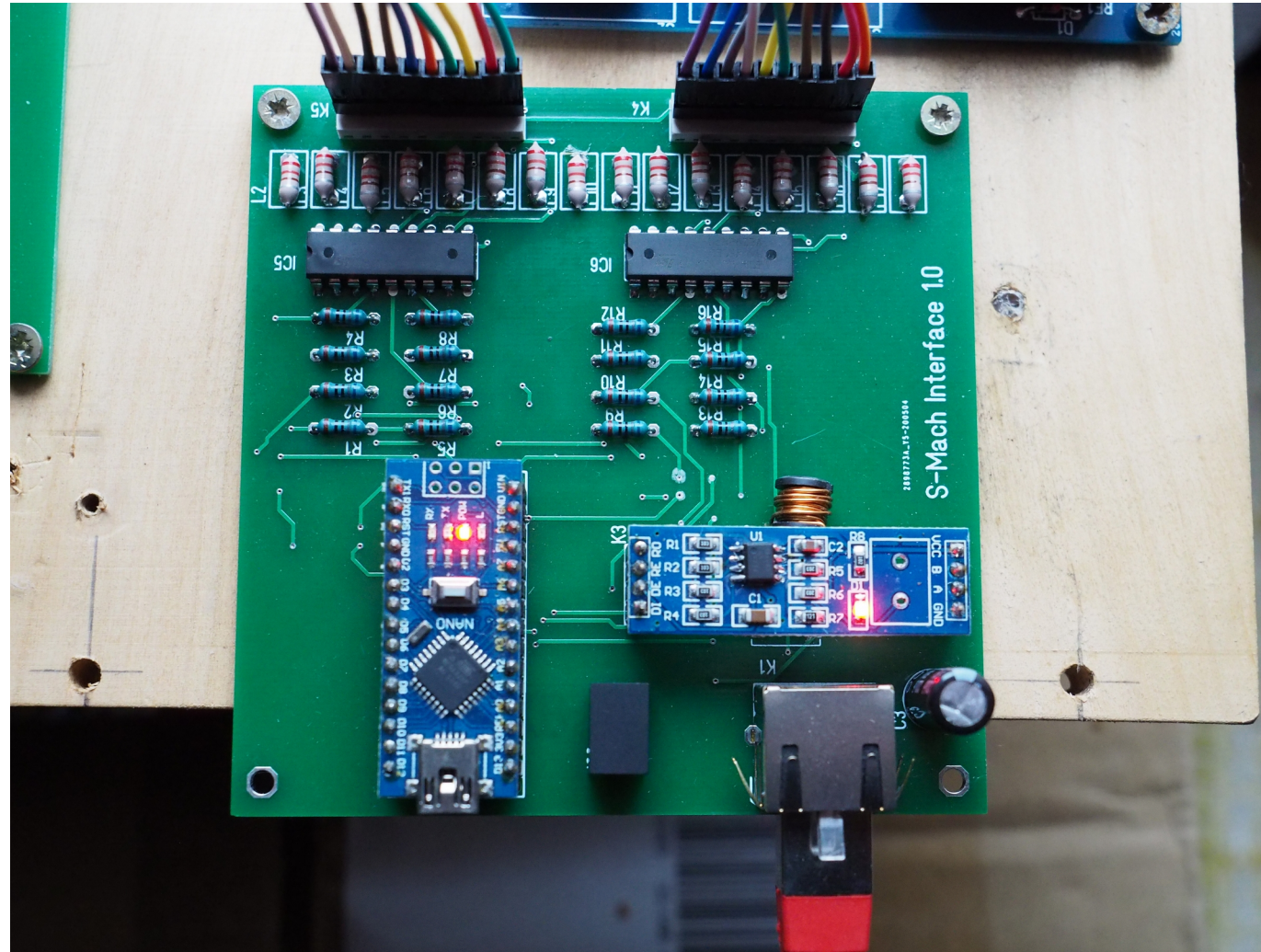
View to the front of controller

S-Match Coupler

Interface-PCB with
Arduino NANO

PCF8574T I2C Port
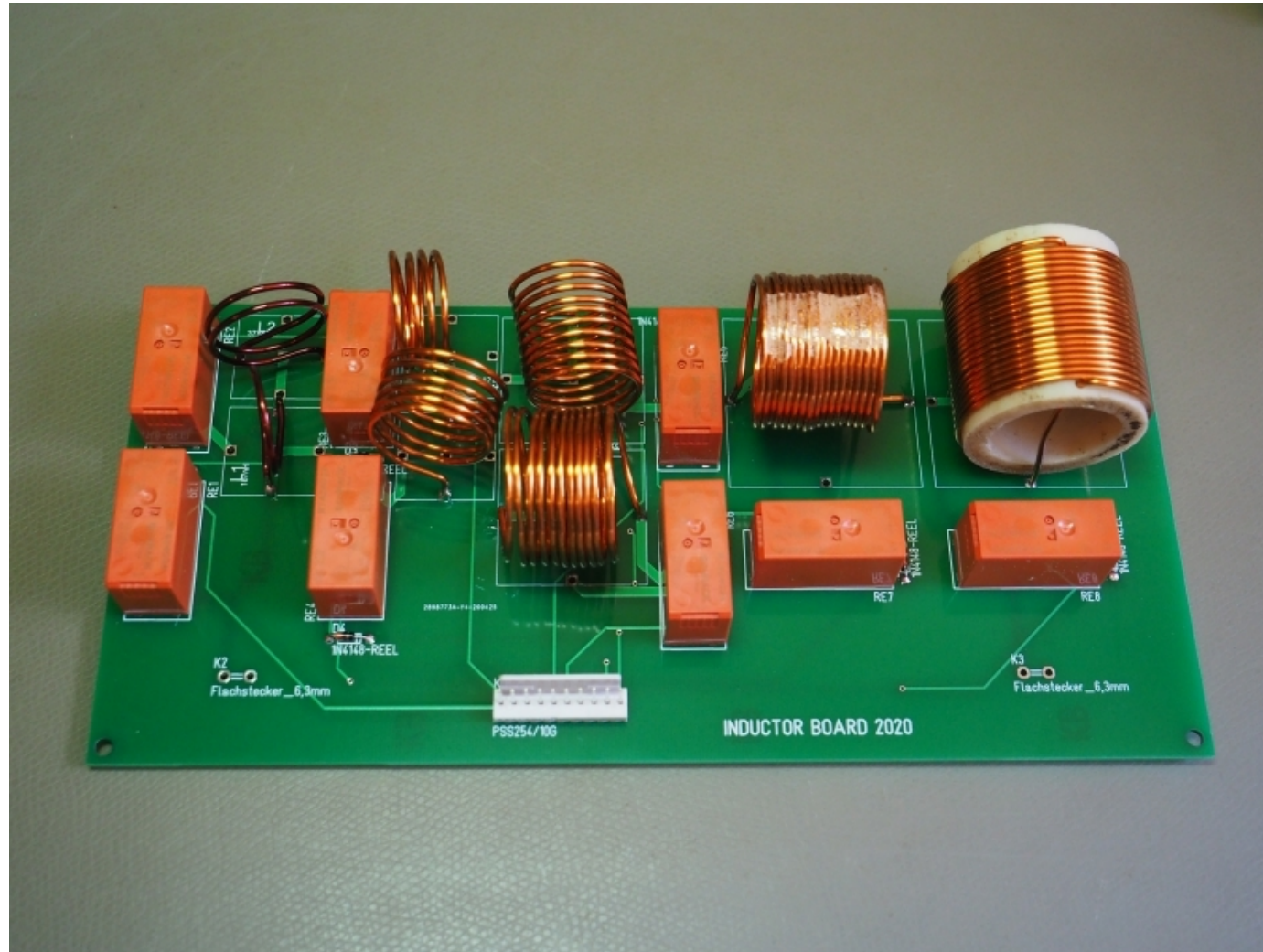Expander at Bottom

ULN 2803 Driver

RS485 / TTL Converter

S-Match Coupler

Inductor Board with
8 Coils - 91nH, 187nH,
375nH, 750nH, 1,5µH,
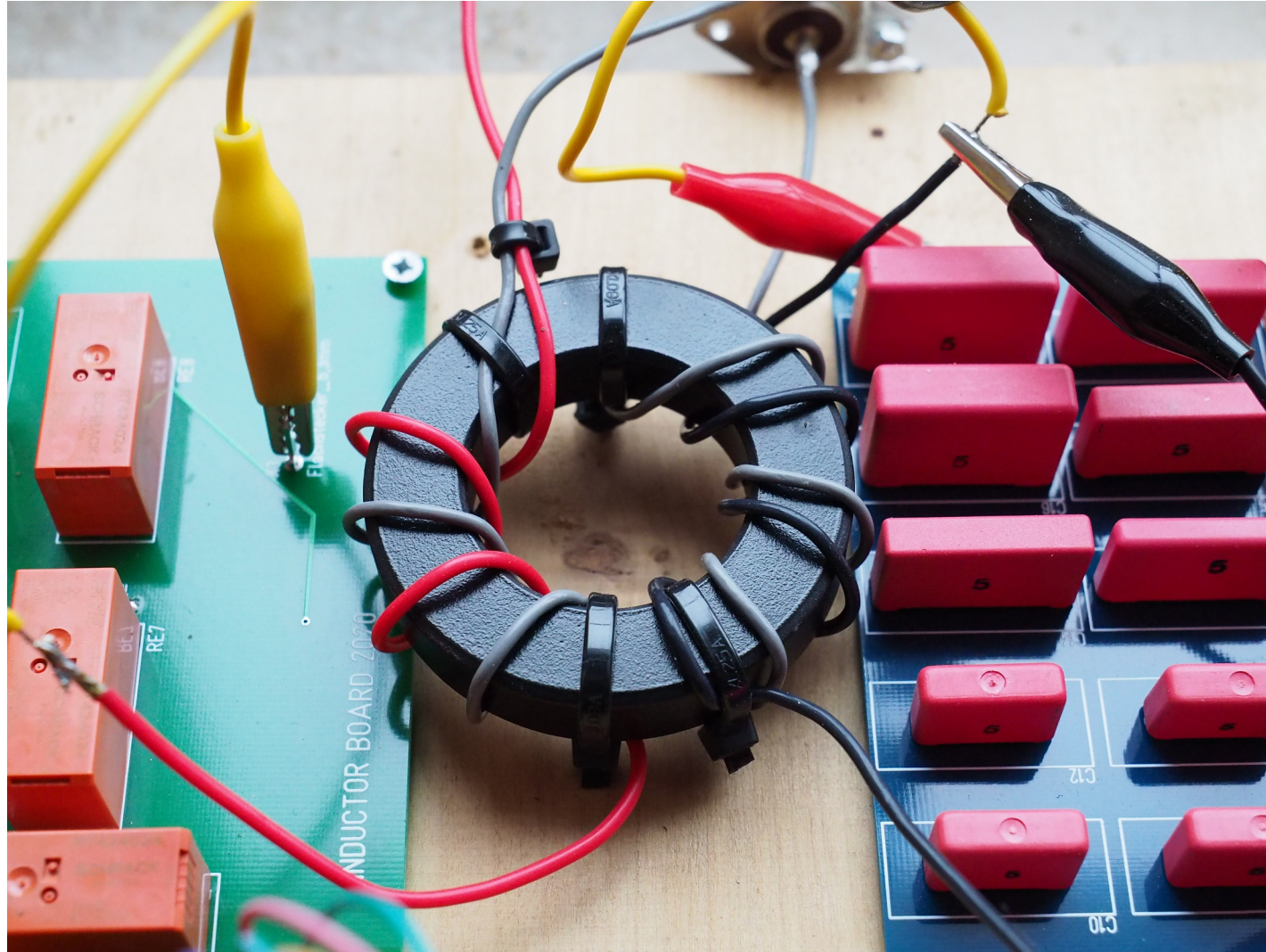3µH, 6µH and 12µH

S-Match Coupler

Capacitor PCB

S-Match Coupler

BALUN/Transformer

with PTFE isolated wires

Overall Diagram Of The S-Match Coupler

Dipole 2 x 27m

USB 2.0

USB 2.0

Computer with Logging Software and CAT-Control at the Station Desk

+ 13,8 V

S-Match Coupler

Controller

Interface

Cat5e Cable

Transceiver

QRG   3517000 Hz

L 109   C 2

RG 213 Coax