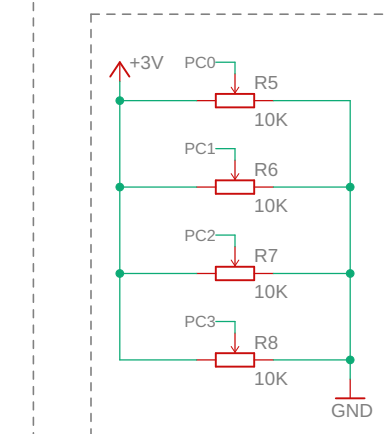
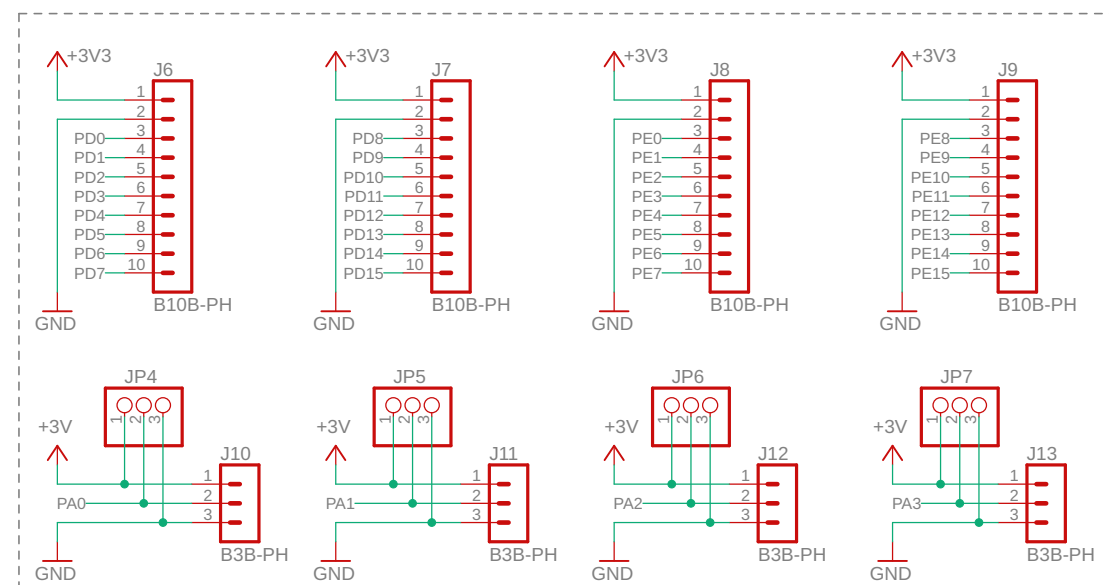
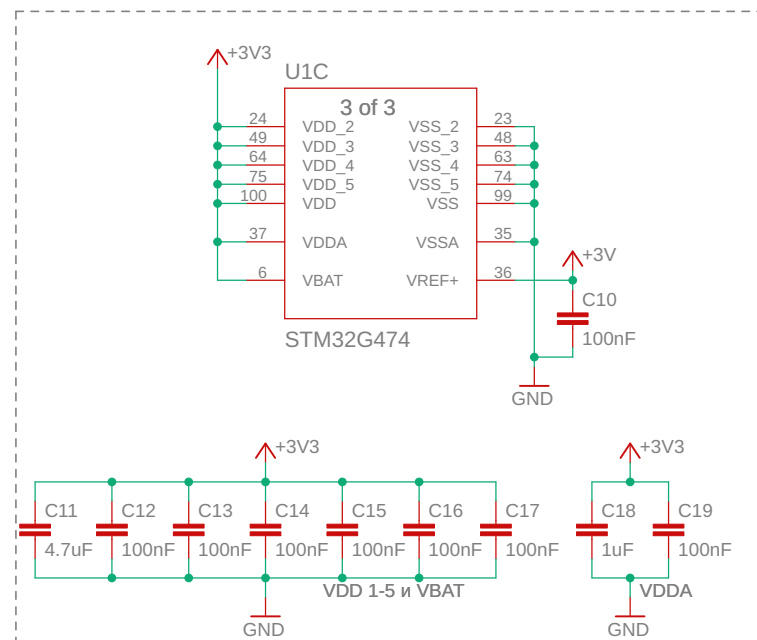
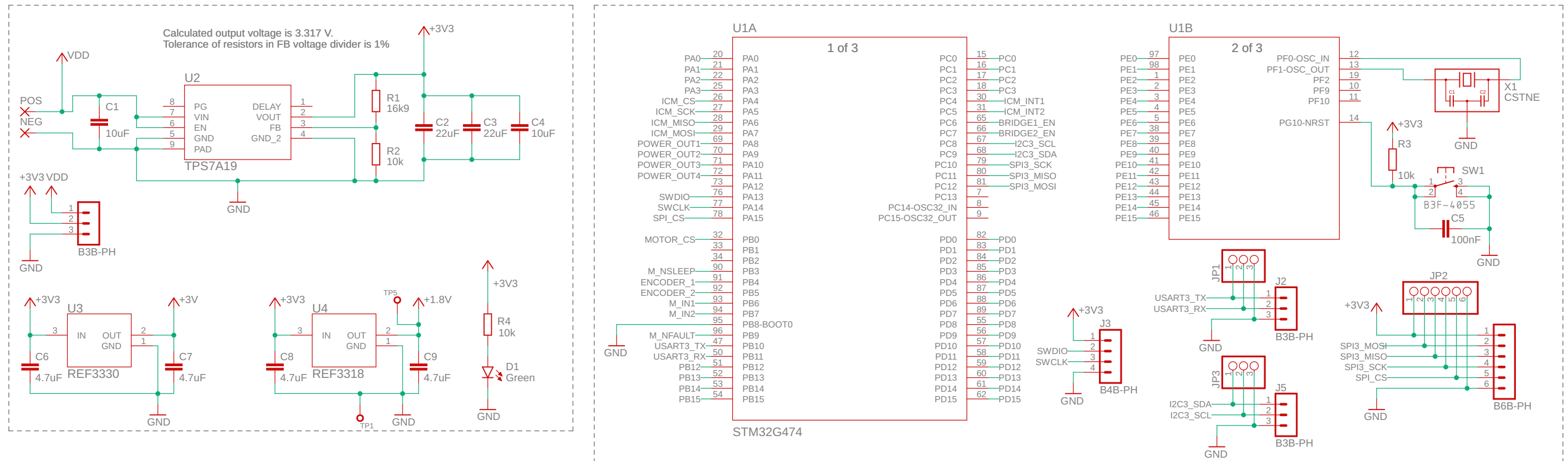
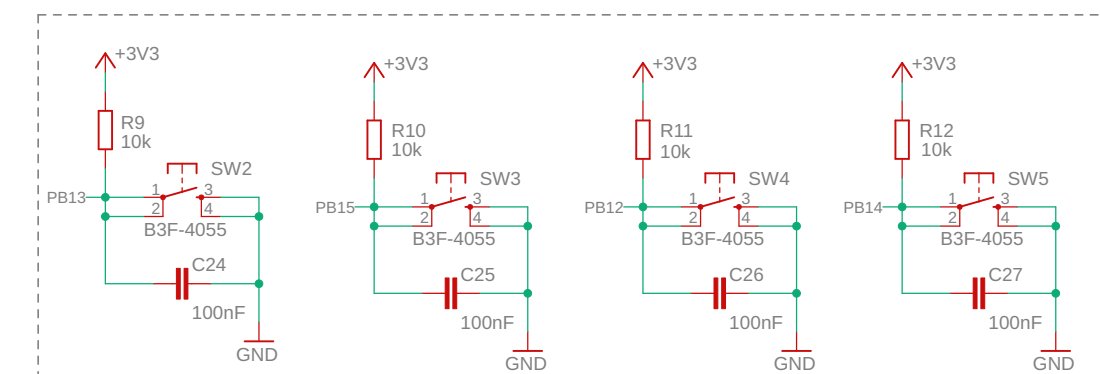
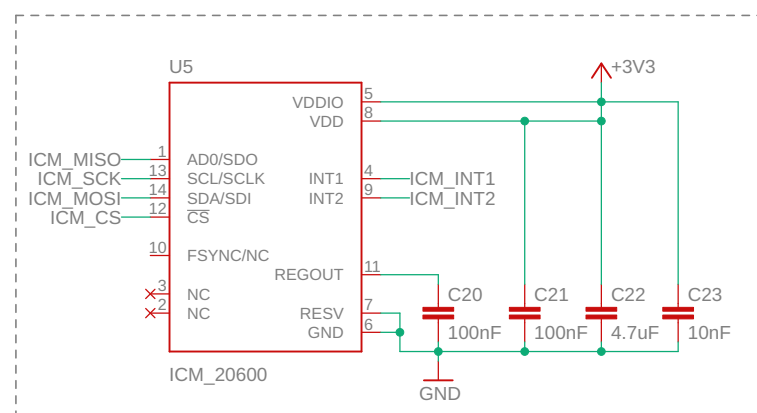


Grid size 0.05 inch, Alt 0.01 inch



При трассировке печатных плат можно будет поменять местами индексы у J



Schematic designed to work either from external power adapter (from 12V to 5V) or from ST-Link 3.3V power line

TITLE:	STM32 control board
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Document Number:

REV:

Date: 14.01.2021 16:04

Sheet: 1/2

Schematic diagram of the STM32 control board. The top section shows the power supply and motor driver circuit. It includes a 16V regulator (U6) with capacitors C37, C38, C39, C40, C41, and C42. The motor driver (U7) is a DRV8701VIA, which controls a motor (M2) through a bridge of four MOSFETs (Q1, Q2, Q3, Q4). The motor is connected to a 3V3 supply. The bottom section shows the I/O and communication interfaces. It includes a 3V3 regulator (U8) with capacitors C45, C46, C47, C48, C49, and C50. The I/O pins are connected to various components: PD0-PD15 to D2-D32 and RM8-RM5; PE0-PE15 to D3-D32 and RM1-RM4; and a 4-pin header (J15) for PO1-PO4. The schematic is designed to work either from an external power adapter (12V to 5V) or from the ST-Link 3.3V power line.