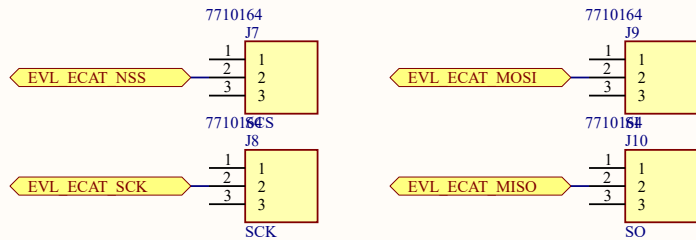
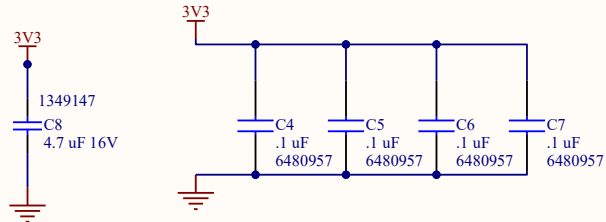
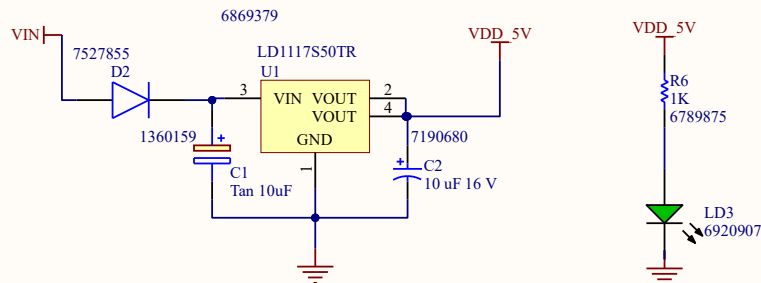
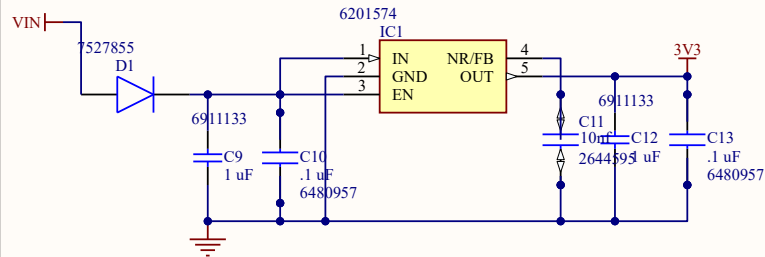


## Adaptors to LAN9252\_EVB\_SPI



## PWR



**TODO LIST for second version (2020.08.03)**

- Adapt an STM32F4xxx MCU of smaller package (QFN possible) to asses the following peripherals:
  - 2 PWM outputs with independent DMA access
  - 1 UART output with independent DMA access to run 1-Wire Master
  - 1 SPI Master Port (4 wires) for general communication with another sensor
  - 1 SPI Master Port specific for communication with LAN9252
  - If possible SQI compatible (6 wire)
  - 1 I2C Port
  - SWD/JTAG compatible interface available (10-14 Pin)
  - At least 2 GPIOs available (status led and reset button)

Microcontroller should comply with a similar capabilities of STM32F446ZE + EEPROM\*

\*To avoid simulation by software

**NOTES**

The 3V3 Volts pin will be cut out and replaced for a regular male pin

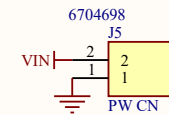
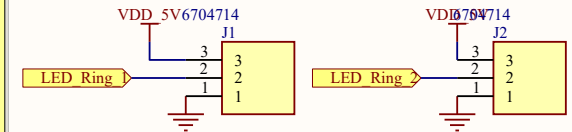
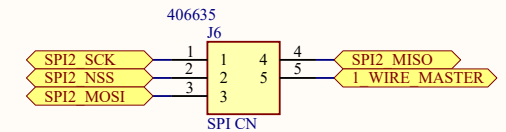
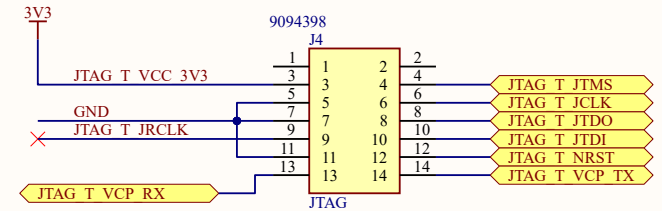
QUAD SPI not considered for this first version


What type of connector? MOLEX53392-0871

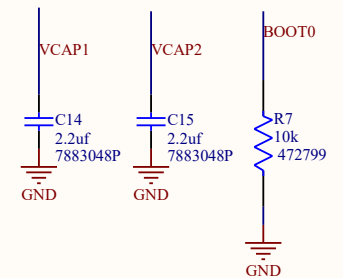
XTAL needed or working with internal? NO, works with HSI

Consider PICO CLASP and MicroFit connectors + a stacked approach to shrink the size, similar to ELMO.

## CONNECTORS



Title <b>PCBAB0001v01A: Power/Conn</b>			Han's Robot Germany GmbH Barmbeker Straße 9a	
Size: <b>A4</b>	Number:1	Revision:3	22303	
			Hamburg	
Date: 9/17/2020	Time: 11:16:22 PM Sheet 1 of 2		Germany	
File: D:\PCB\Projektarbeit\PCB AxisCommHub\PowerSource.SchDoc				



▲ NOTES from Nucleo  
 VCAP1/2 connected as in Nucleo  
 VBAT,VREF,VDDA connected to VDD without C nor Inductor  
 PDR ON- Always high to enable the power supply supervisor  
 MCO /PH0- not used since there is no synchronization of clocks  
 with other microcontrollers



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WE LEARN, WE GROW, WE THRIVE