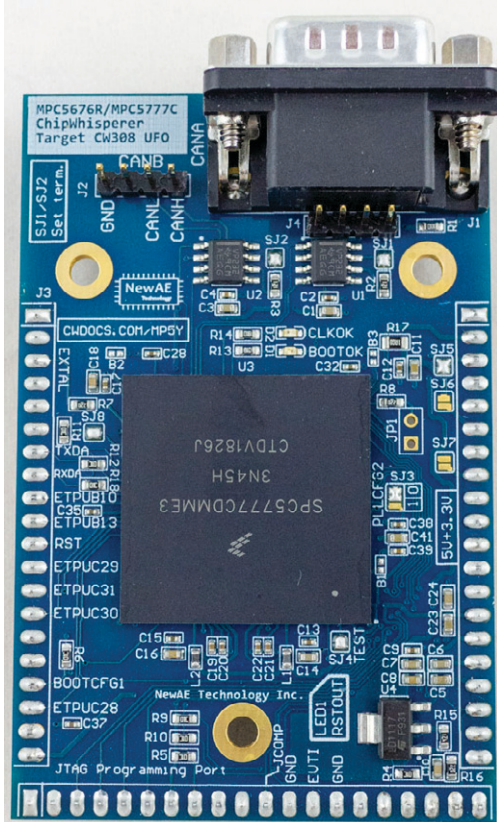




# MPC5777C UFO Target



The CW308T-MPC5777C target series allows experiments on the three-core e200z7 (PowerPC) device. This microcontroller is found in automotive and industrial applications. The connected pin headers allow usage of two CAN controllers, along with various other peripherals.

This target includes a hardware security block, including 'Secure Hardware Extension' (SHE) compliant firmware. Details of using the security block are available without a NDA.

ENGCLK header pins allow synchronizing to the internal oscillator during the boot process.

An external JTAG programmer is required for this target. A suggested programmer is the PE Micro Multilink or Multilink FX, which are directly compatible with the S32 Studio Environment (NXP Provided Environment).

**CW308 UFO Baseboard Required for use!**  
**JTAG Programmer Required for use!**

## Product Highlights

Total of 8MB flash, 512 KB SRAM.

Device includes Cryptographic Services Engine (CSE) that complies with Secure Hardware Extension (SHE) Functional Specification Version 1.1 security functions.

On-board internal core voltage regulator for low-noise core supply voltage (does not use on-chip regulator).

Two CAN ports broken out, one to DB9 header, one to a pin header.

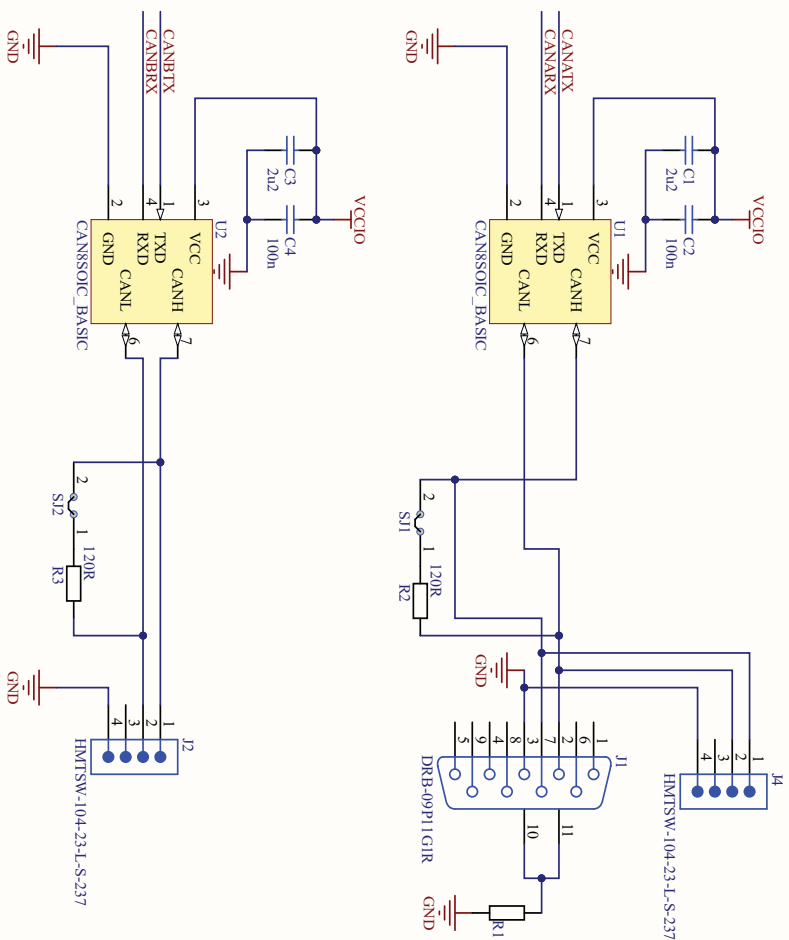
Identical board available with MPC5676R device mounted for comparisons across device families.

## Ordering Summary

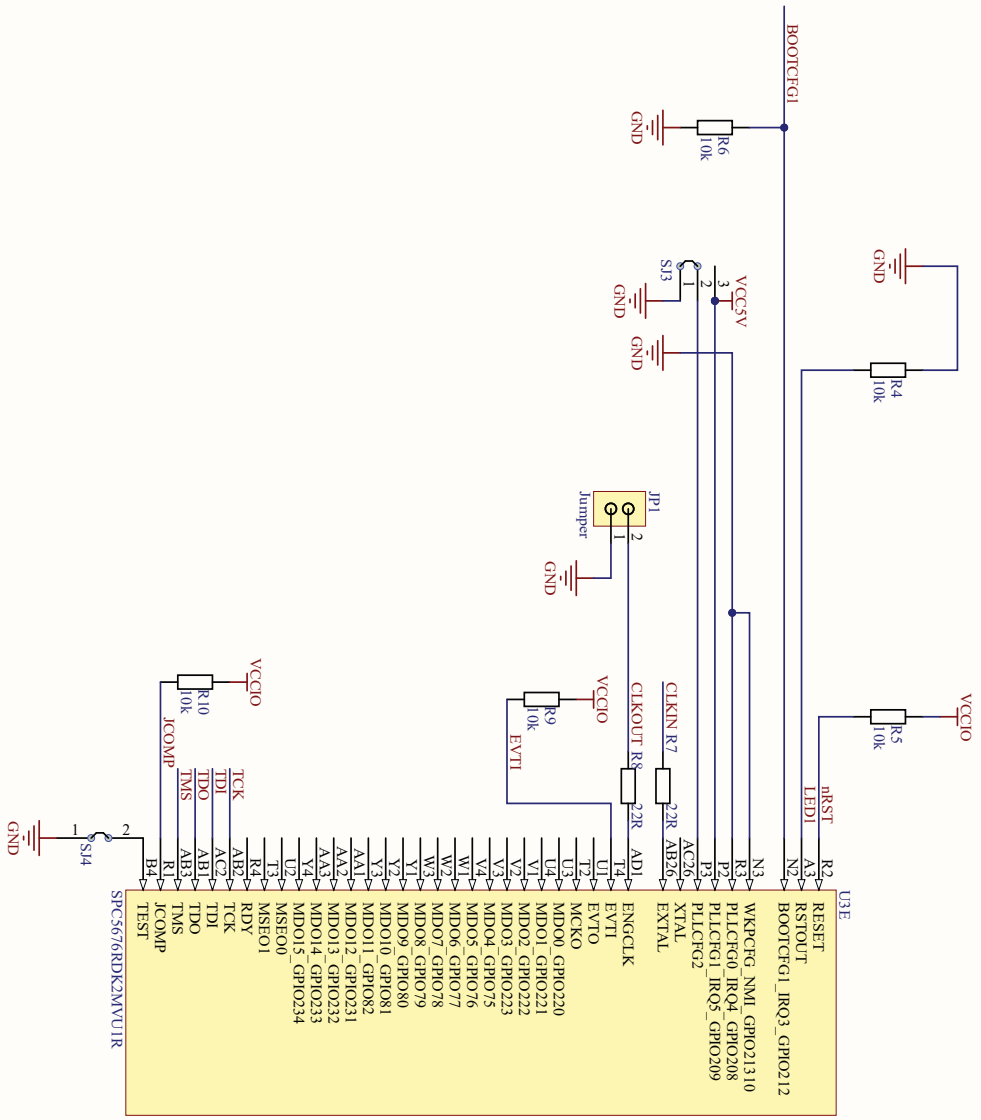
NAE-CW308T-MPC5777C NXP MPC5777C (SPC5777CDK3MME3) UFO Target Board.


## Product Links

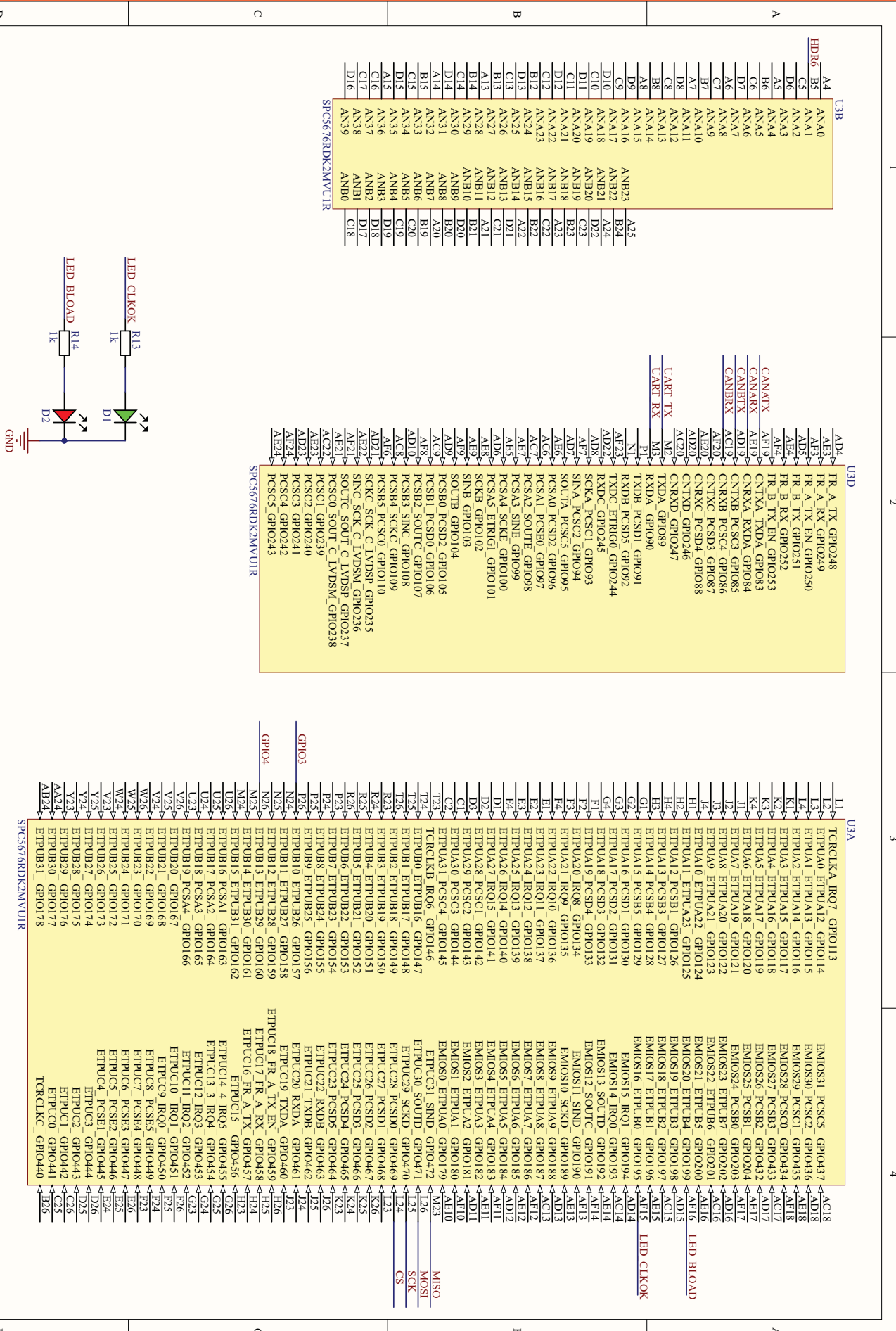
- Full Documentation <https://wiki.newae.com/CW308T-MP5Y>
- Firmware Examples <https://github.com/newaetech/chipwhisperer/tree/master/hardware/victims/firmware>
- Design Files <https://github.com/newaetech/chipwhisperer-target-cw308t>



Title: <b>CAN Transceivers</b>		Approved: YES		
Rev: 03	Project: CW308T-MPC57	License: GPL		
Date: 2020-03-20	Time: 9:09:50 AM	Sheet 1 of 5	Copyright © NewAE Technology, Inc. NewAE.com	
File: mpc56_canSchDoc				

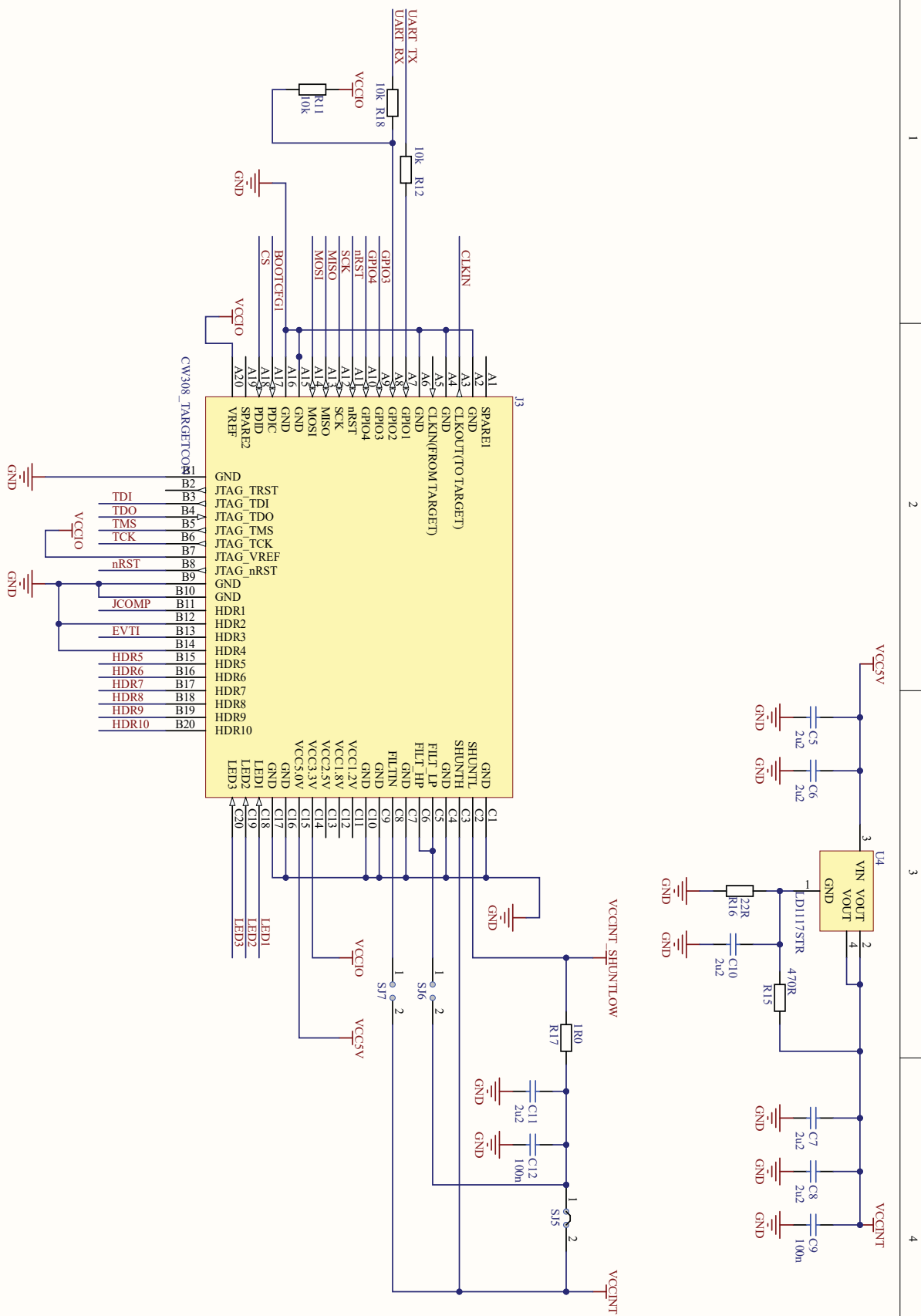


Title: <b>Clock/Reset Drivers</b>		Approved: YES	
Rev: 03	Project: CW308T-MPC5Y	License: GPL	 NewAE.com
Date: 2020-03-20	Time: 9:09:51 AM	Sheet 2 of 5	
File: mpc56_clk.SchDoc			

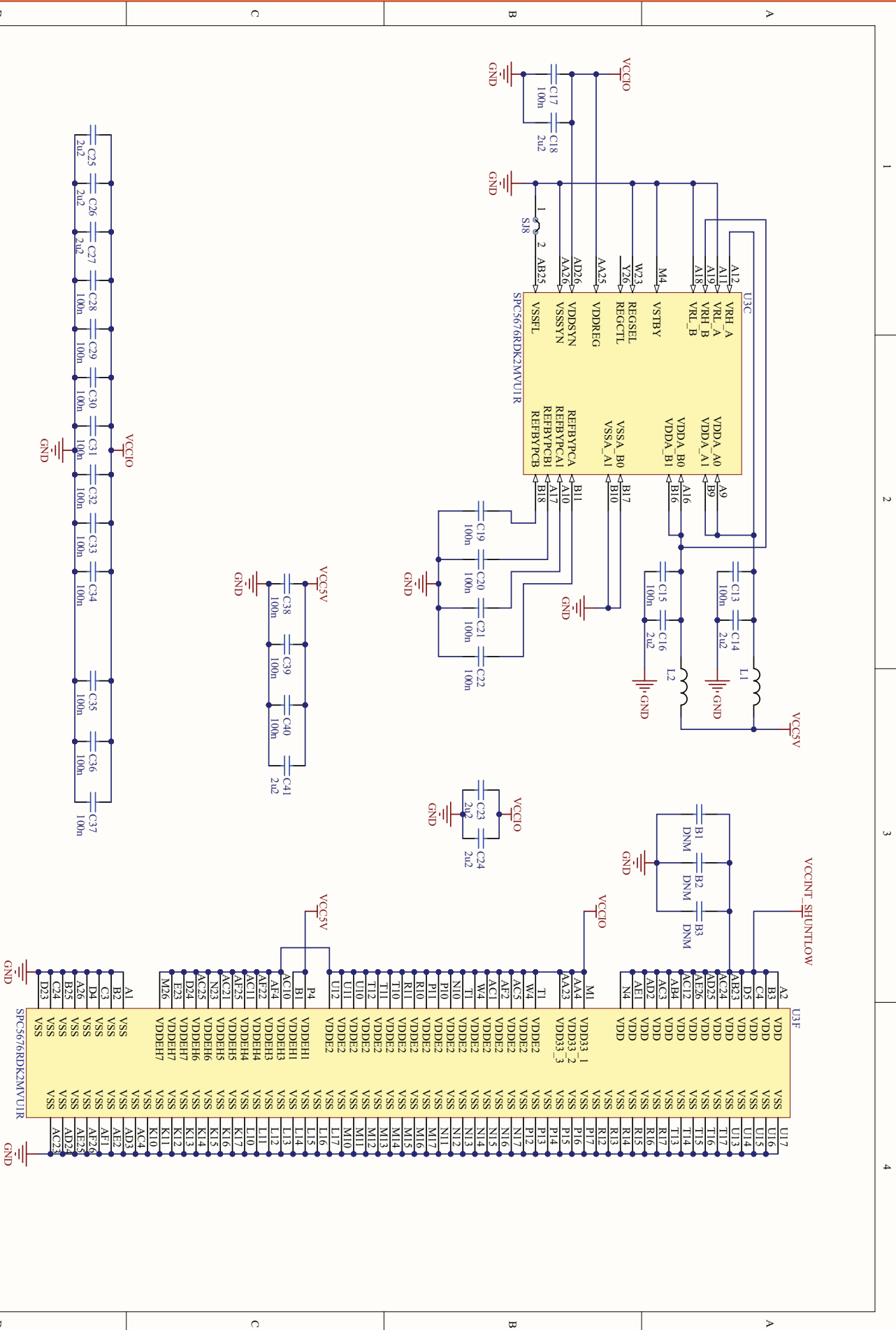


**CPU I/O Bank 2**

Title:	Project:	Approved:	
Rev: 03	CW308T1-MPC5Y	NO	
Date: 2020-03-20	Time: 9:09:51 AM	Sheet 3 of 5	Copyright © NewAE Technology Inc. NewAE.com
File: mpc567_gpio02_Sch.Ddc			



Title: <b>CW308T UFO Connectors</b>		Approved: YES	
Rev: 03	Project: CW308T-MPC57C	License: GPL	
Date: 2020-03-20	Time: 9:09:51 AM	Sheet 4 of 5	Copyright © NewAE Technology Inc. NewAE.com
File: mp556_cwcom_SchDoc			



Title: <b>MCU Power</b>		Approved: YES	
Rev: 03	Project: CW308T-MPC577C	License: GPL	
Date: 2020-03-20	Time: 9:09:51 AM	Sheet: 5 of 5	Copyright © NewAE Technology Inc. NewAE.com
File: mpc5676r_mcu_power_sch1.doc			

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