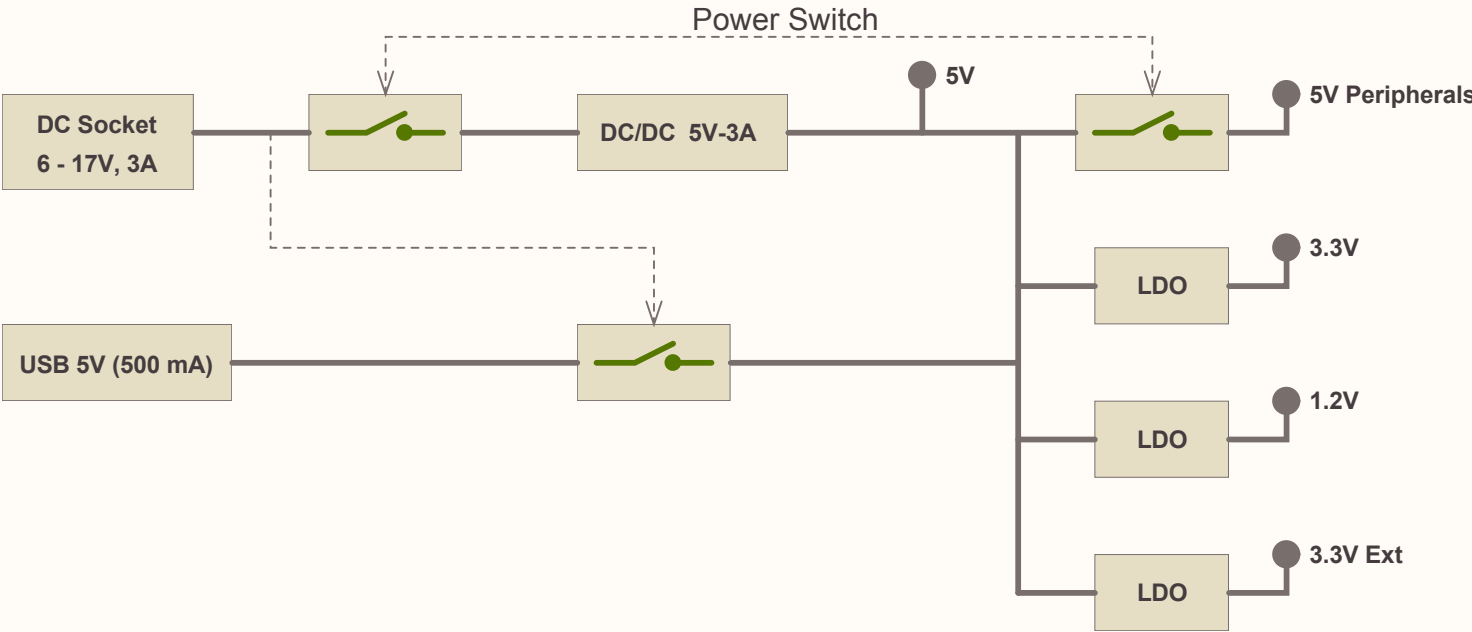
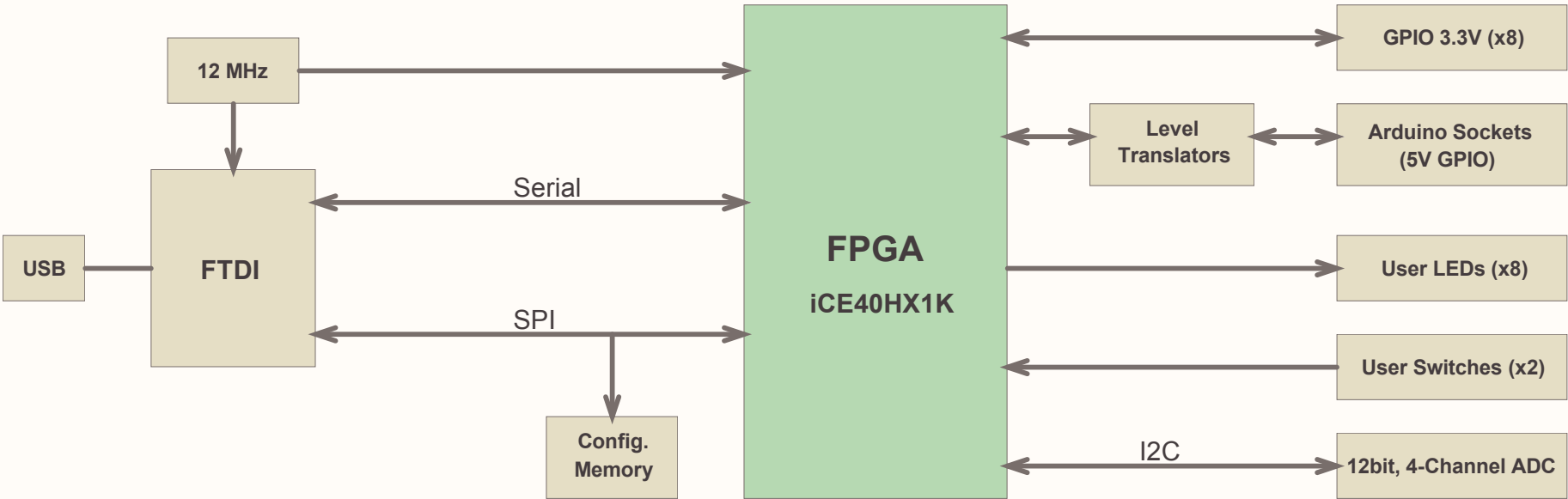


IceZUM Core HX1K

Revision History

2016-08-30: Rev1.1 (Date code 1635)

2016-02-18: Initial release, Rev1.0 (Date code 1607)



THE

Abstract

FD1
Fiducia

FD2
Fiducia

FD3
Fiducial

IceZUM Alhambra FPGA Board

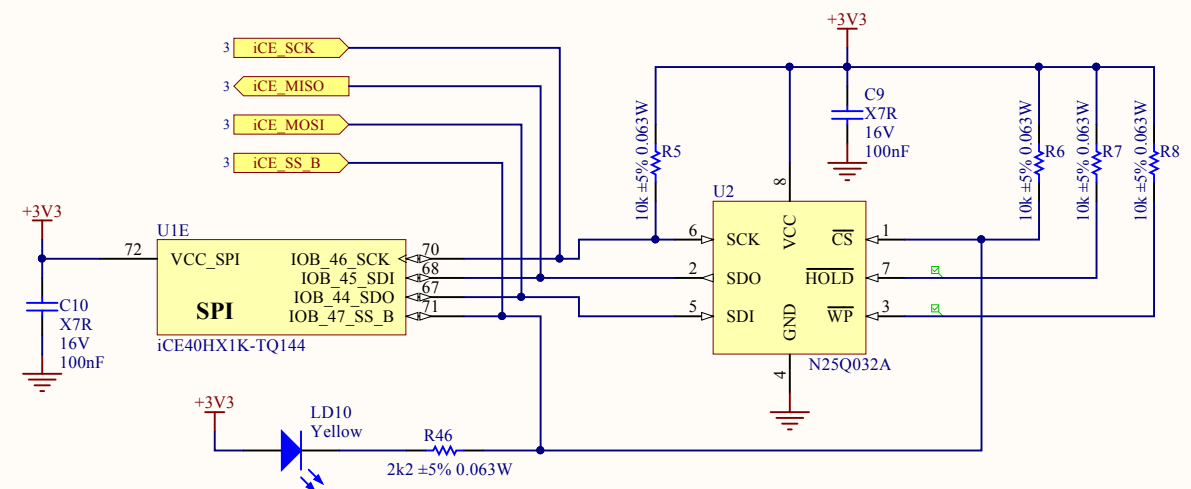
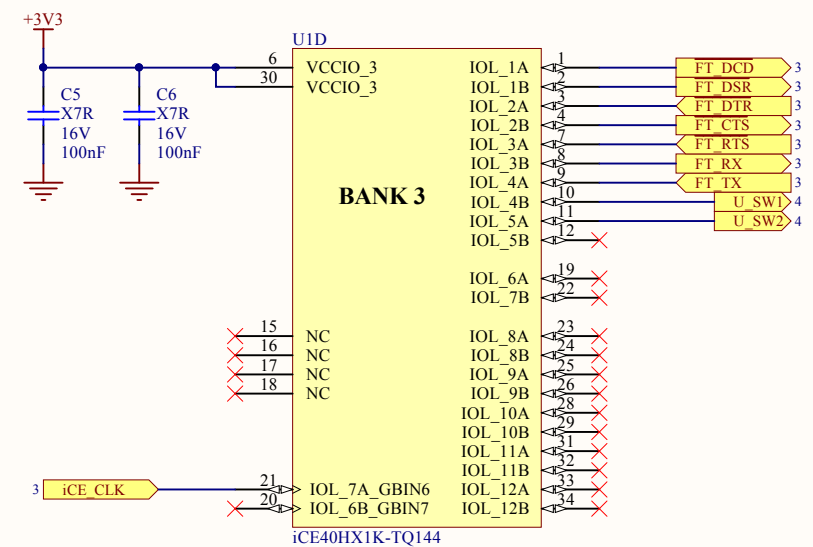
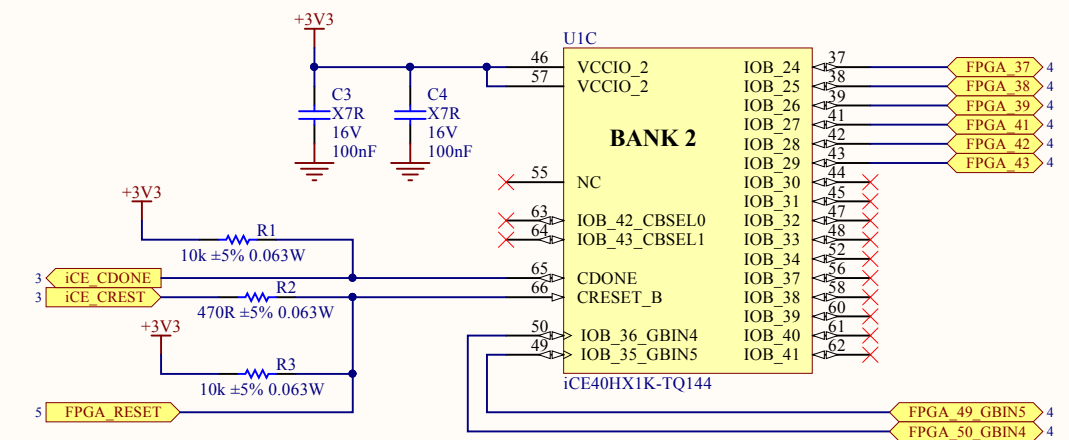
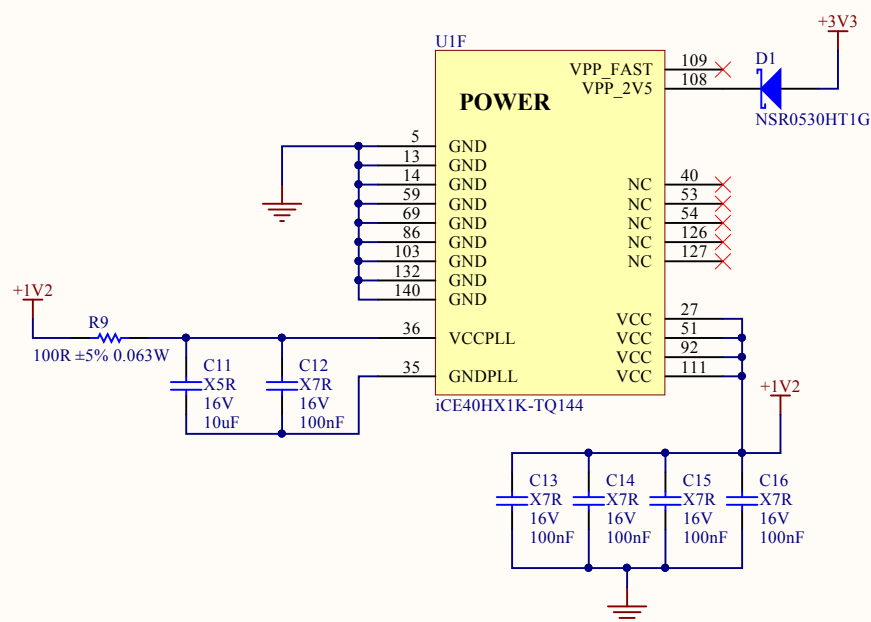
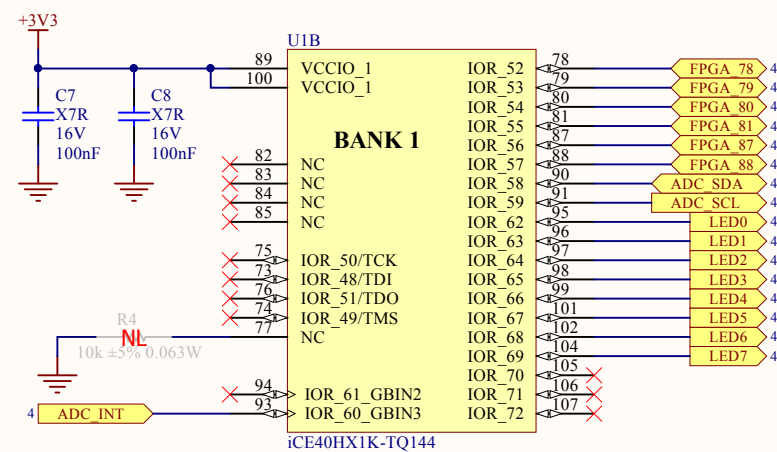
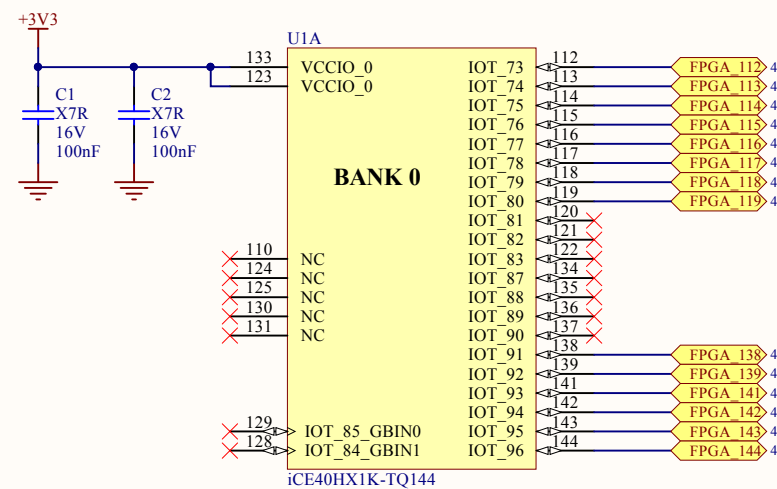
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Sheet	Top Sheet		A
Project	IceZUM Core HX1K.PrjPcb		Revision: 1.1
Sheet 1 of 5	Number:		
Author:	Eladio Delgado Mingorance	Date: 31/08/2016	Time: 19:17:29



MARELDEM TECHNOLOGIES



LED lights up on access to FPGA configuration memory:

- memory is being programmed by FTDI
- memory is being read by FPGA after reset or power-on

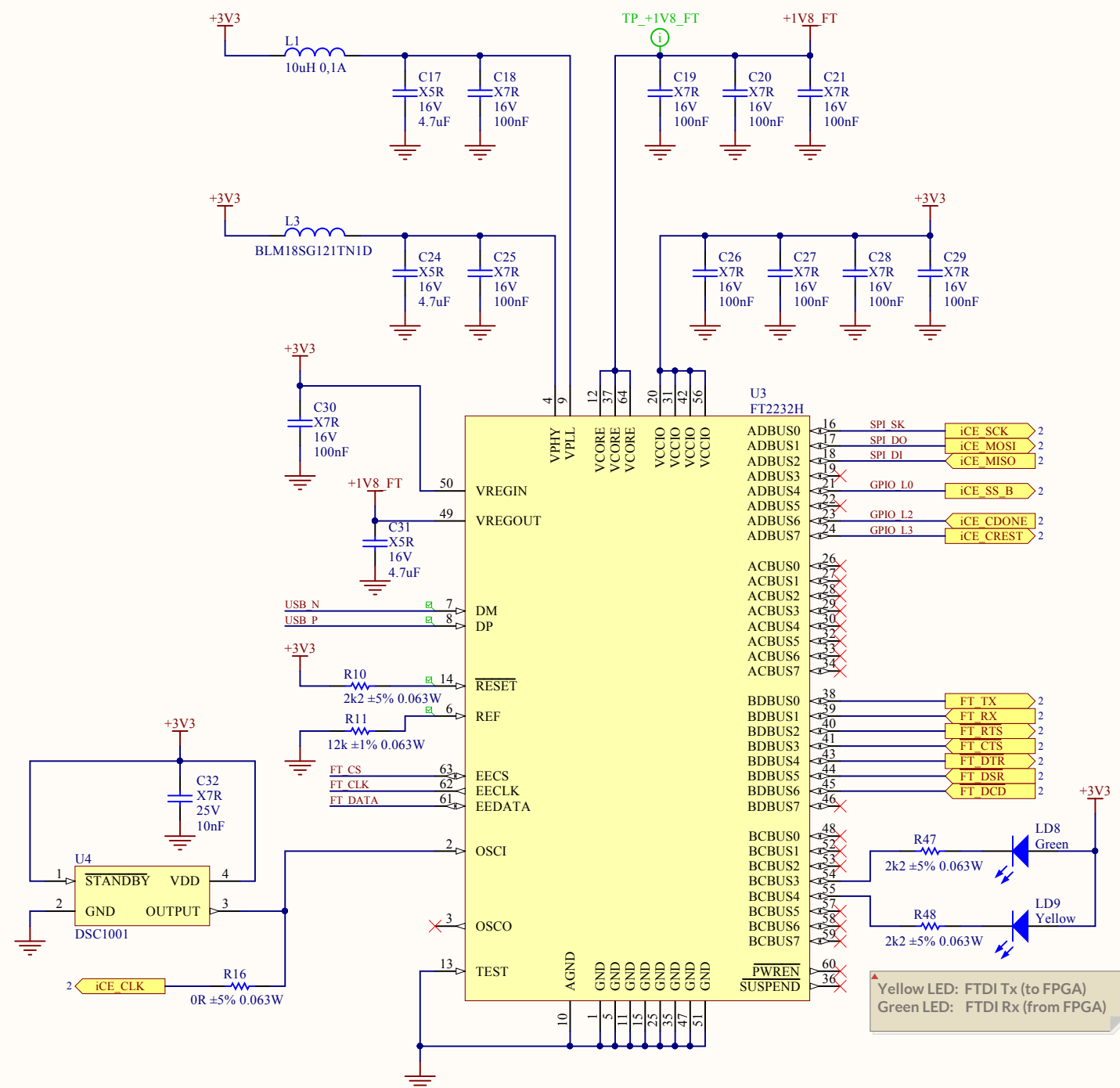
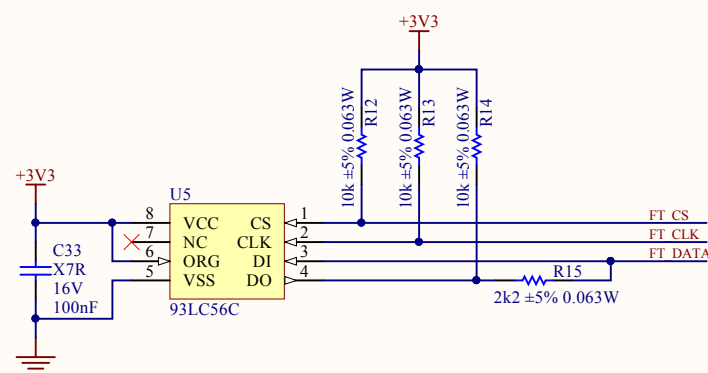
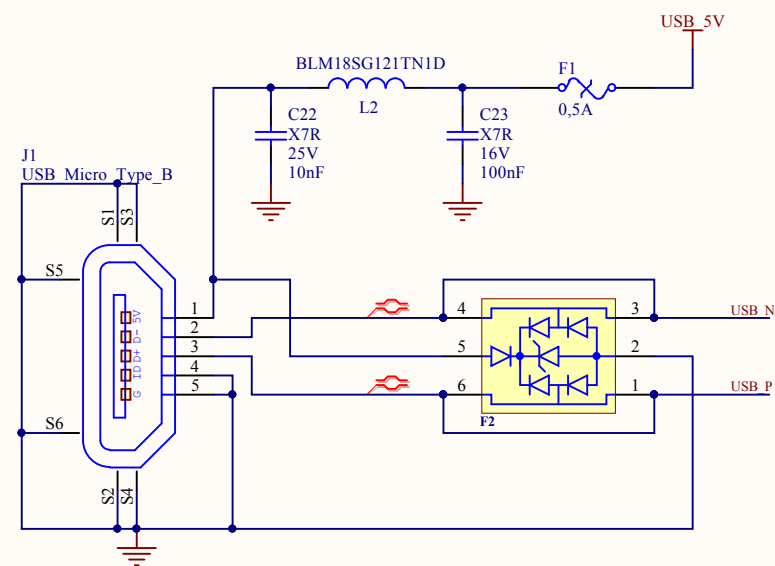
IceZUM Alhambra
FPGA Board

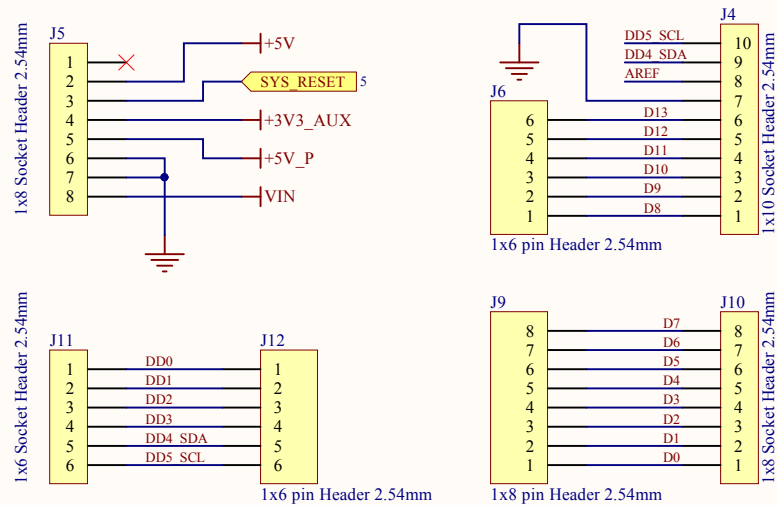
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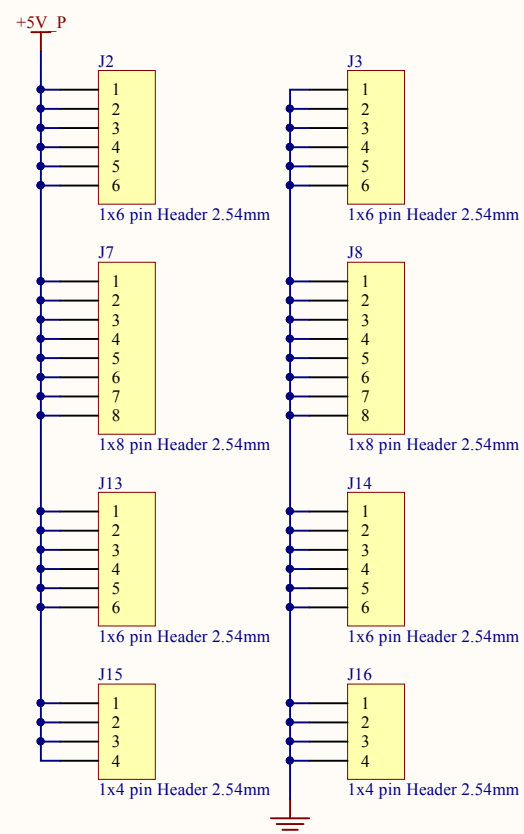
Sheet	FPGA		A3
Project	IccZUM Core HXIK.PrjPeb		Revision: 1.1
Sheet 2	of 5	Number:	
Author:	Eladio Delgado Mingorance	Date: 31/08/2016	Time: 19:17:30

marelden
MARELDEM TECHNOLOGIES

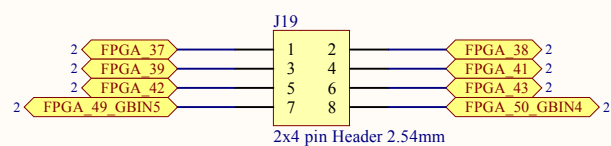




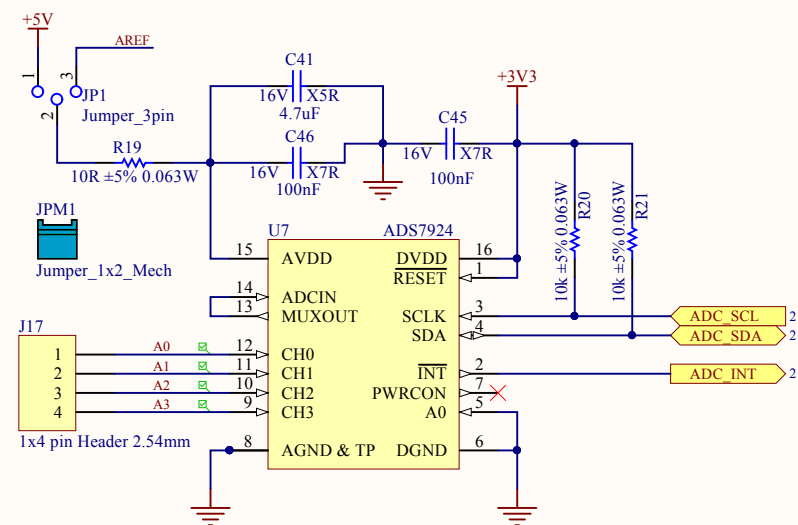
Arduino Sockets & Replicating Headers



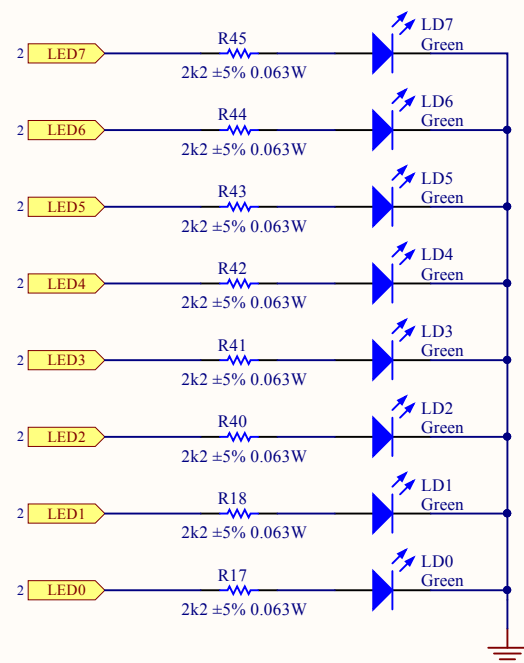
Power Headers



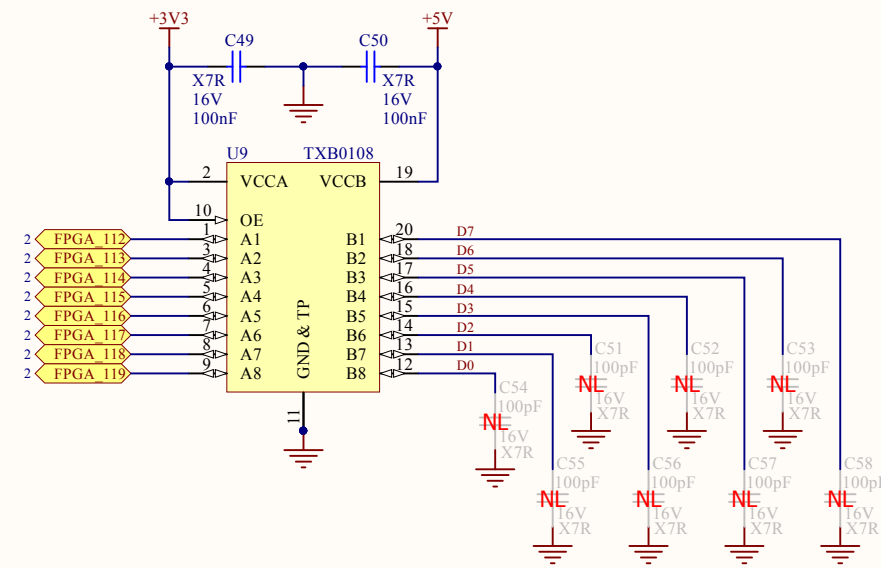
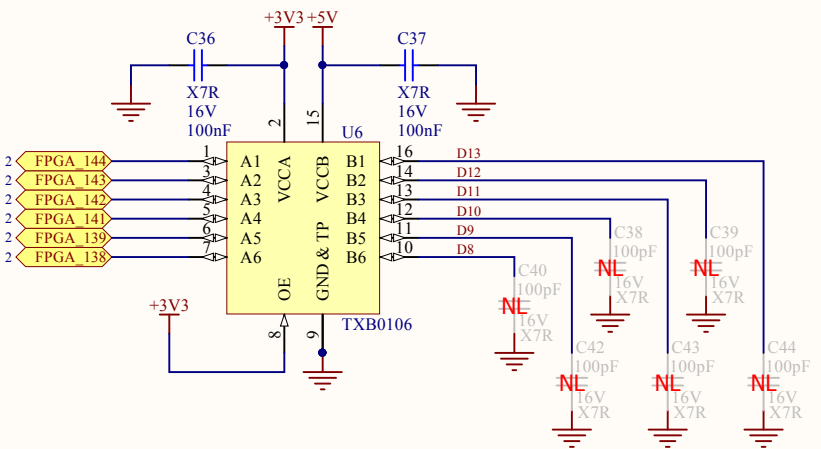
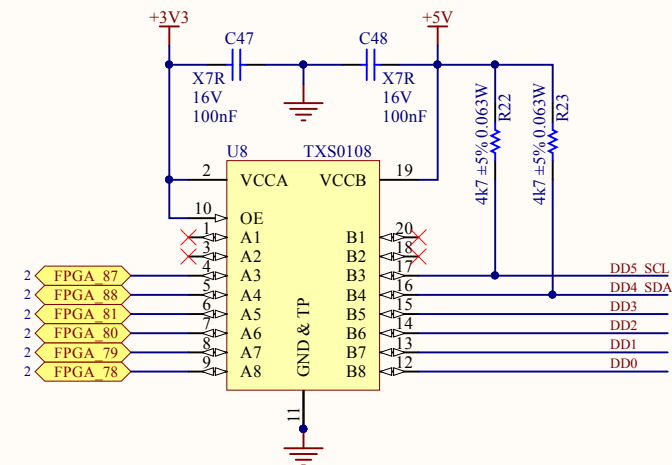
FPGA Direct GPIO (3V3)



4-Channel I2C ADC



User Switches & LEDs



Level Translators for FPGA to Arduino GPIO

IceZUM Alhambra
FPGA Board

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Sheet **Connectors & I/O** A3

Project **IceZUM Core HX1K.PrjPcb** Revision: **1.1**

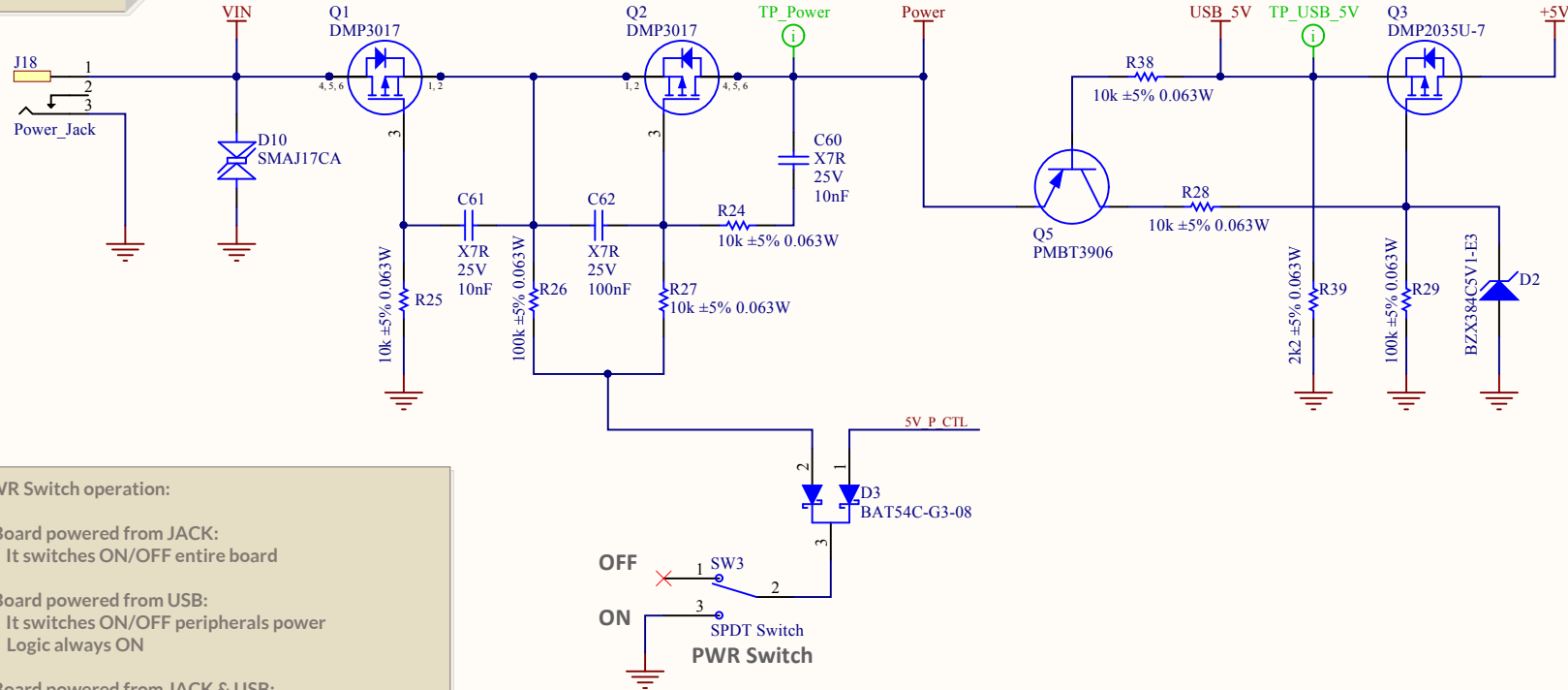
Sheet 4 of 5 Number: Time: 19:17:31

Author: Eladio Delgado Mingorance Date: 31/08/2016

FPGA WARS

MAREDEM
MAREDEM TECHNOLOGIES

DC Power Input:
Voltage: 6 - 17V
Current: 3A



PWR Switch operation:

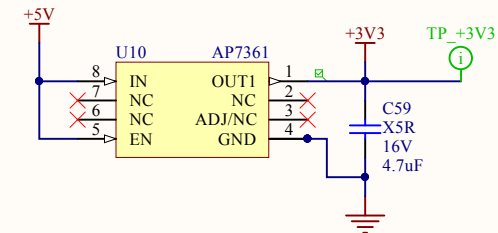
Board powered from JACK:
It switches ON/OFF entire board

Board powered from USB:
It switches ON/OFF peripherals power
Logic always ON

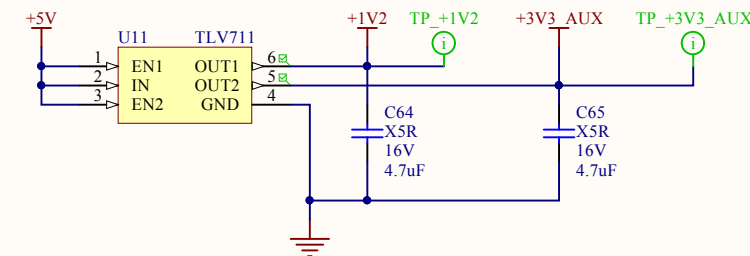
Board powered from JACK & USB:
Switch OFF: Logic ON / Peripherals OFF,
logic powered from USB

Switch ON: Logic ON / Peripherals ON,
entire board powered from JACK

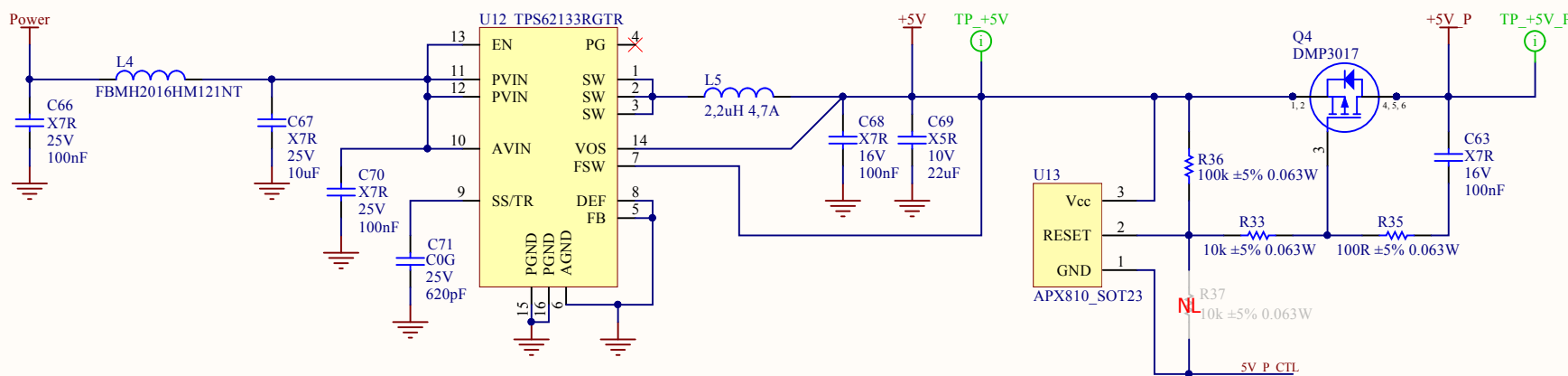
Power Inputs Control and Protections



3.3V Rail, 700 mA Max.

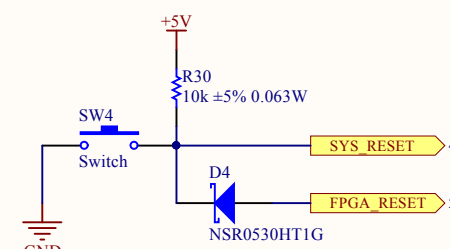


1.2V Rail (200 mA) and External 3.3V Rail (200 mA)

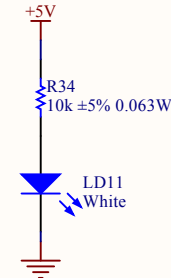


5V, 3A Power Supply

Peripherals Power Switch



RESET



Power LED

IceZUM Alhambra
FPGA Board

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Sheet **Power Supply** A3
Project **IceZUM Core HX1K.PrjPcb** Revision: **1.1**
Sheet **5** of **5** Number:
Author: **Eladio Delgado Mingorance** Date: **31/08/2016** Time: **19:17:31**

maredem
MARELDEM TECHNOLOGIES