
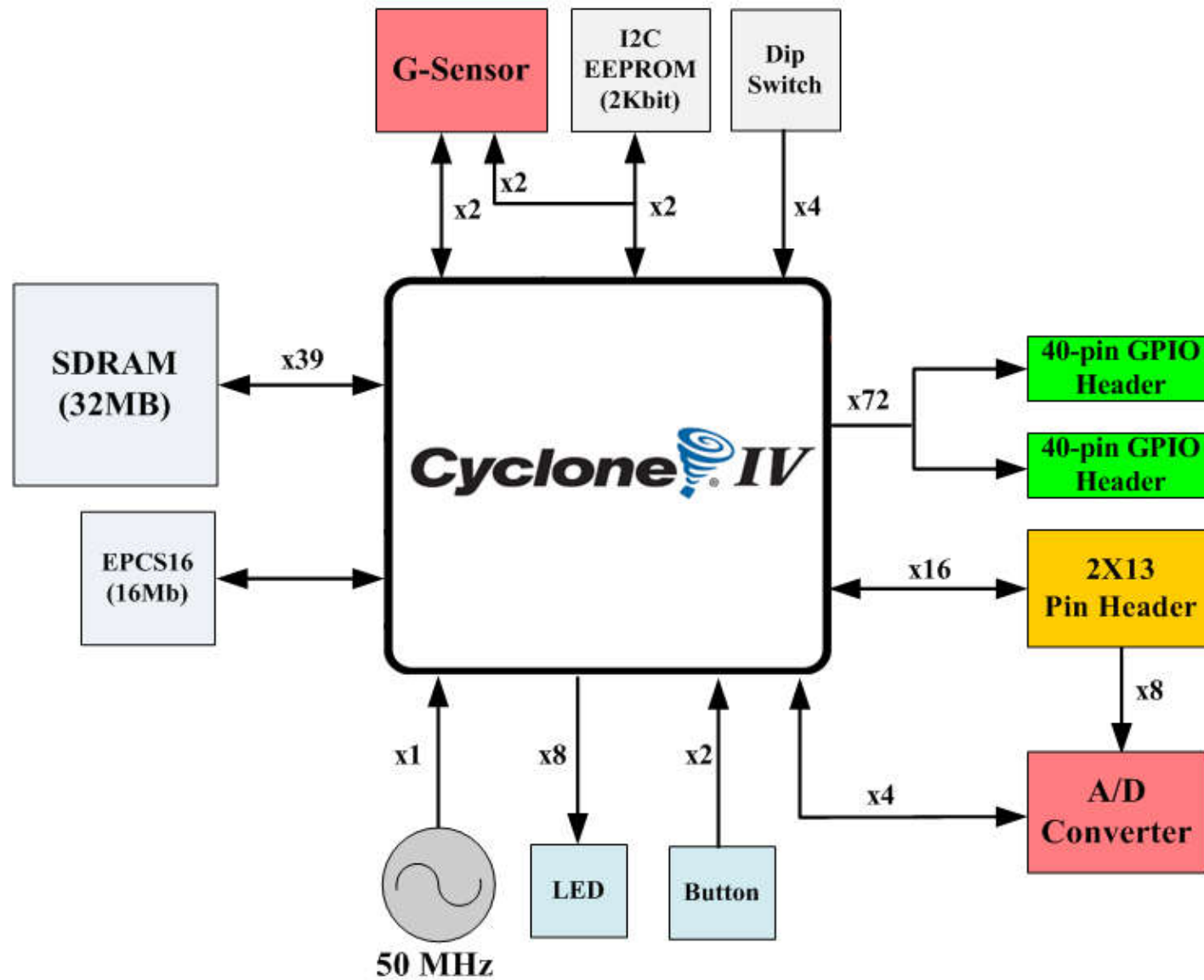


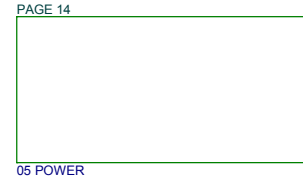
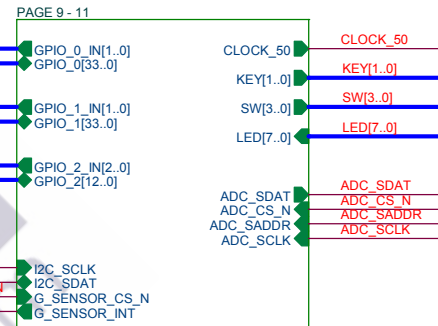
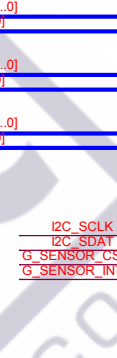
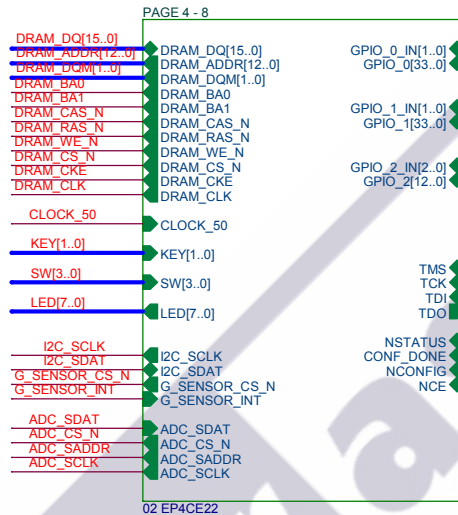
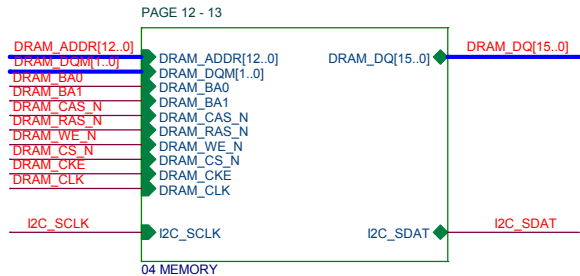
# ALTERA Cyclone IV Development & Education Board (DE0-Nano)

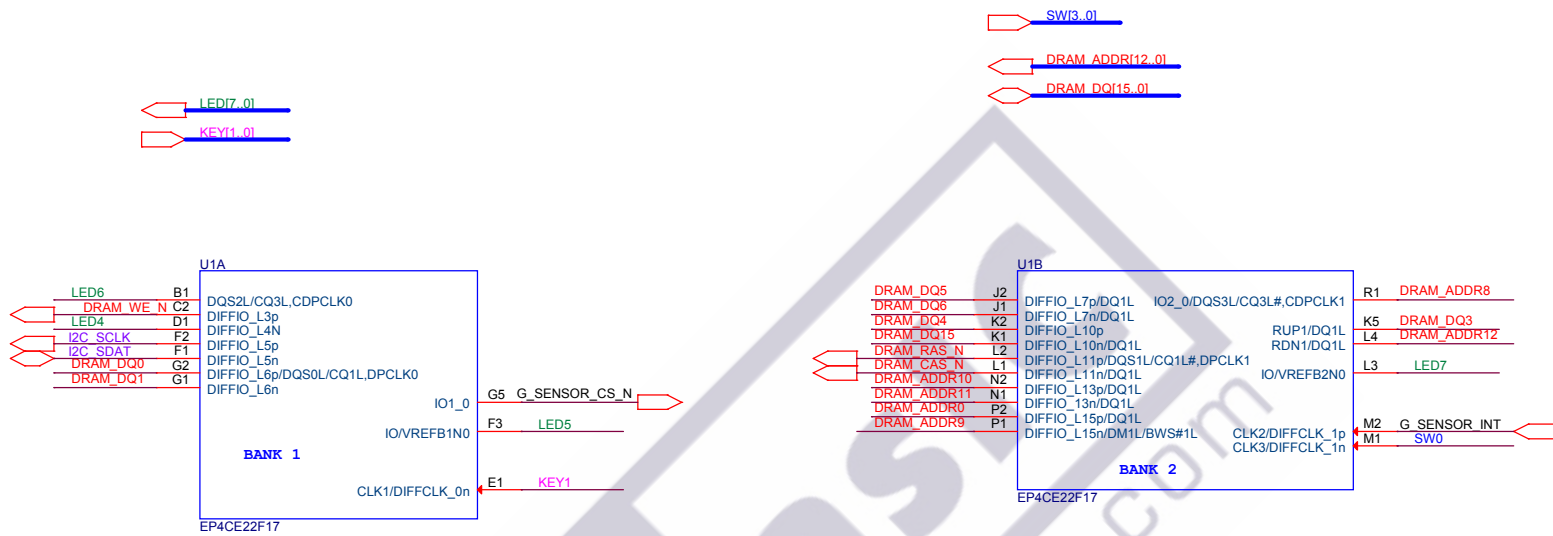
SCHEMATIC	CONTENT	PAGE
01 TOP	Cover Page, Placement, TOP	01 ~ 03
02 EP4CE22	Cyclone IV EP4CE22 BANK1..BANK8 , POWER , CONFIG	04 ~ 08
03 IN/OUT	CLOCK, LED, BUTTON, SW, GPIOs, 2X13 HEADER, G-SENSOR, ADC	09 ~ 11
04 MEMORY	SDRAM, EEPROM	12 ~ 13
05 POWER	POWER 1.2V, 2.5V, 3.3V	14
06 USB BLASTER	USB Blaster	15

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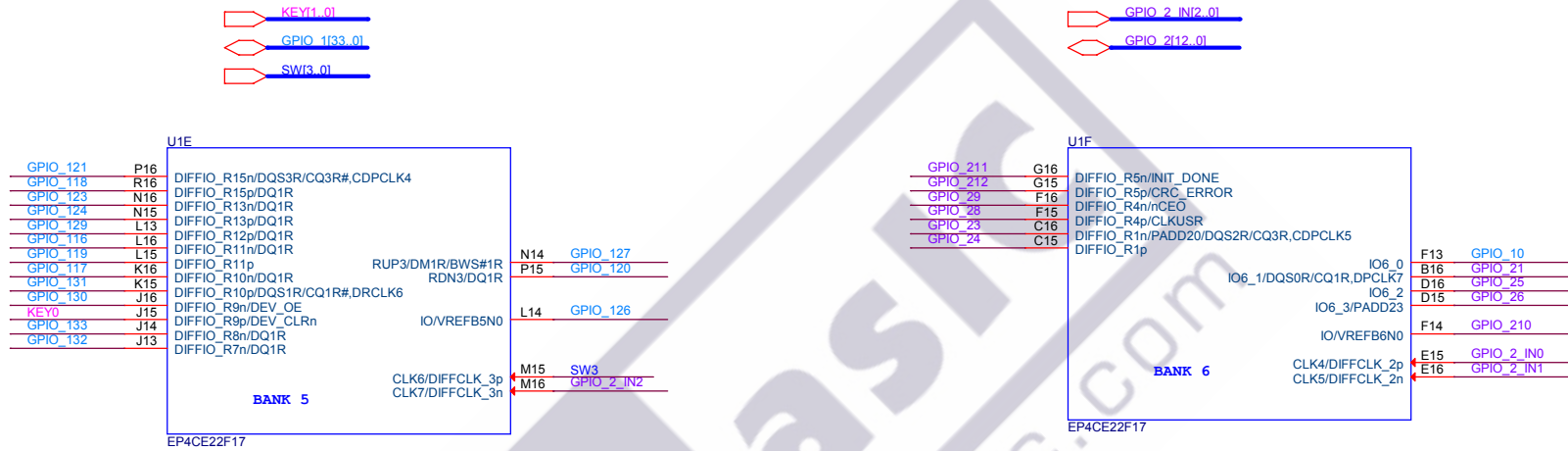
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Title <b>DE0-Nano Board</b>		
Size B	Document Number COVER PAGE	Rev F
Date: Monday, May 15, 2017	Sheet 1	of 15

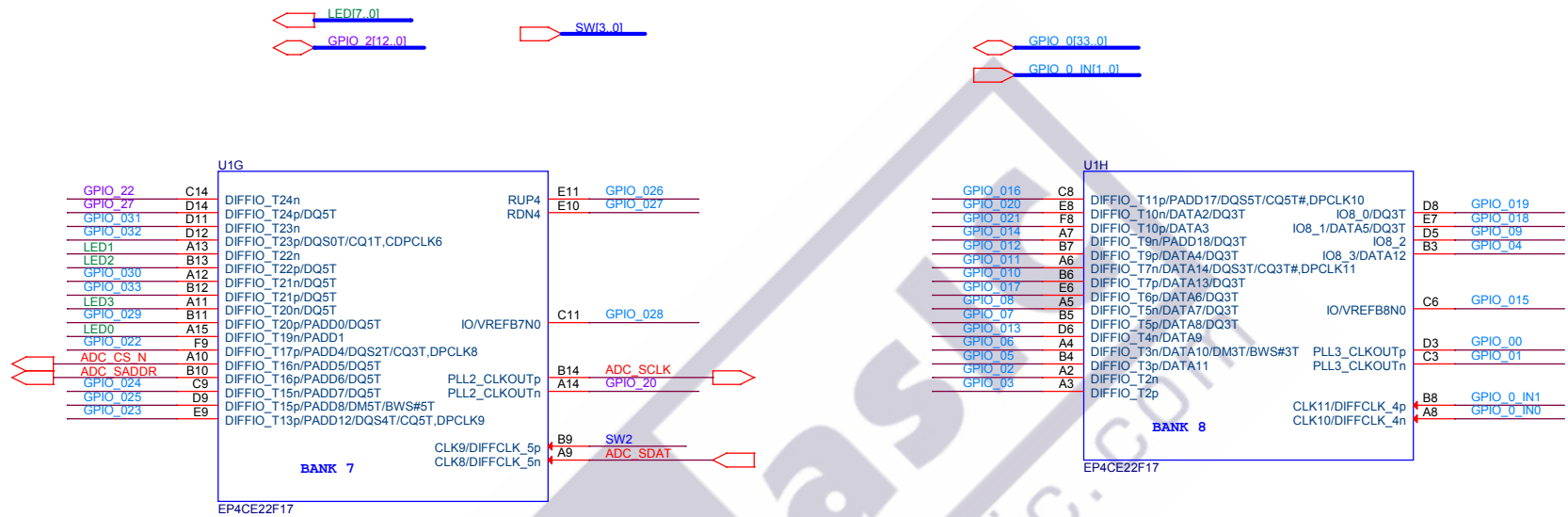


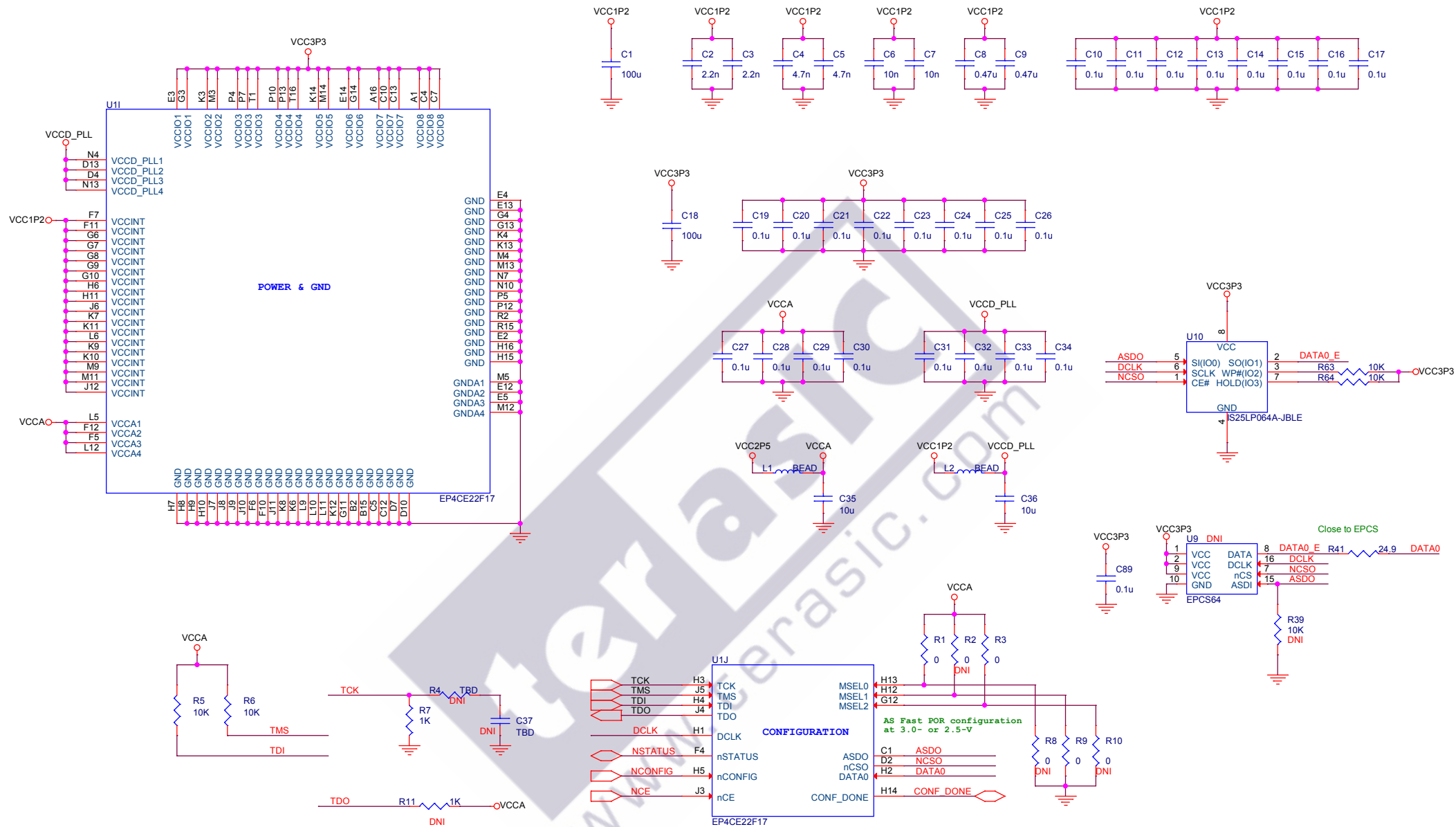




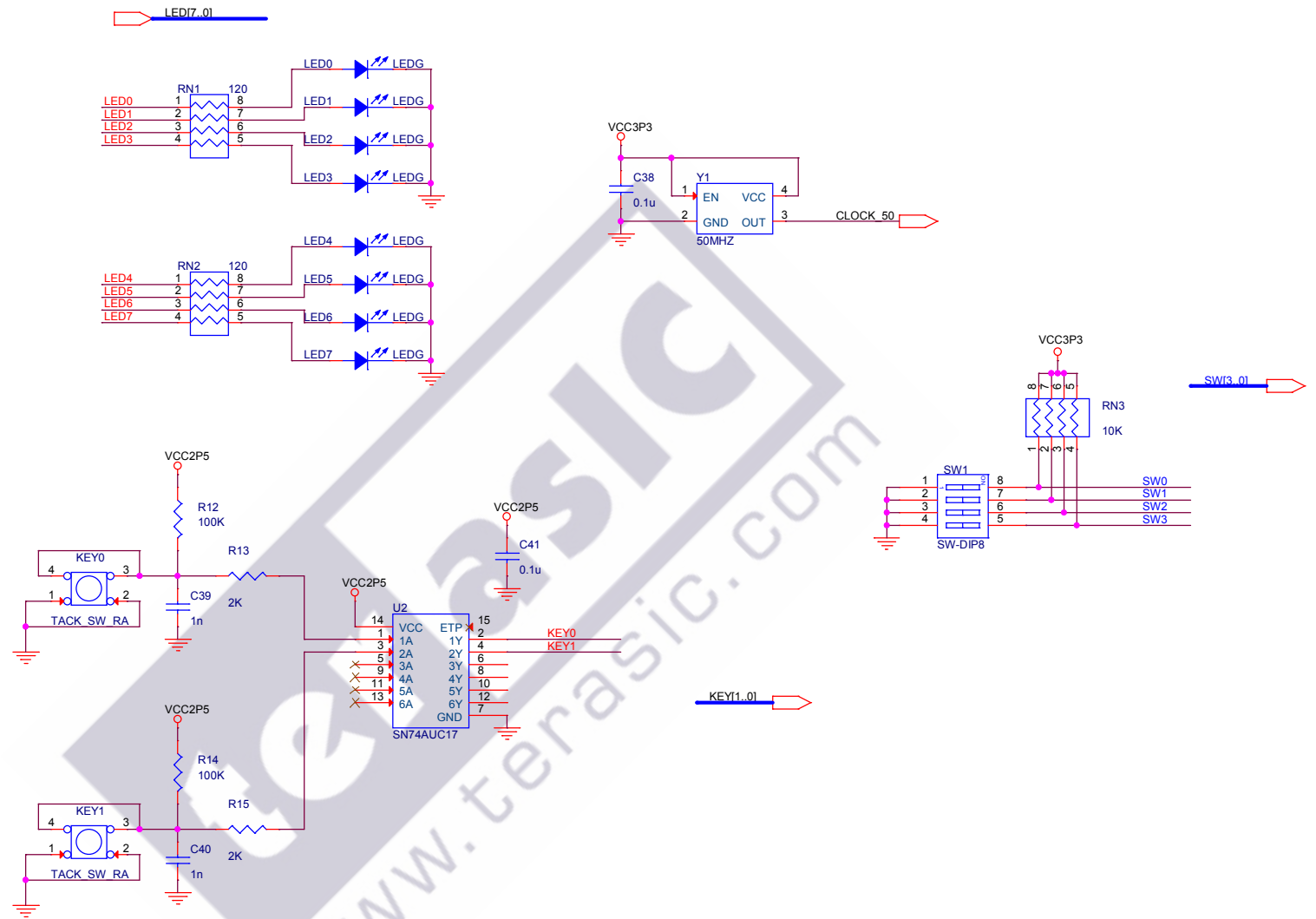




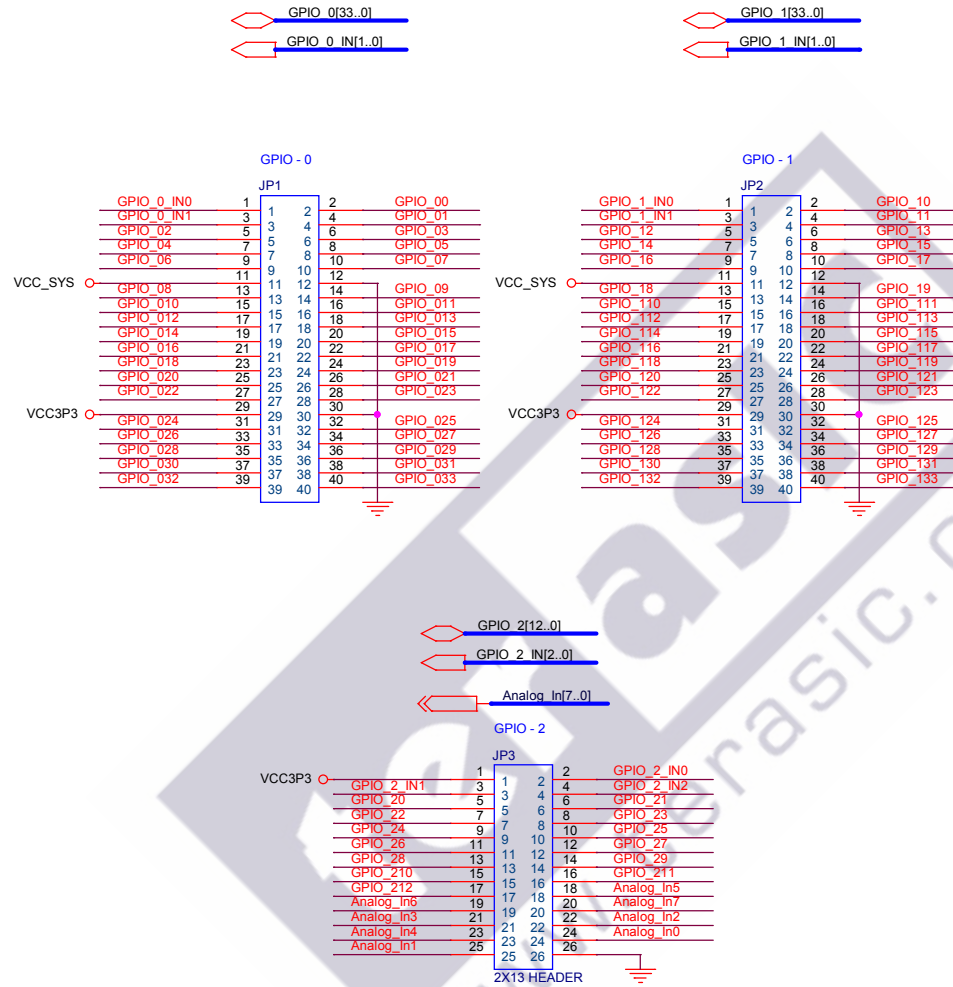








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Title		
DE0-Nano Board		
Size	Document Number	Rev
B	CLOCK & LED & BUTTON & SWITCH	F
Date:	Monday, May 15, 2017	Sheet 9 of 15

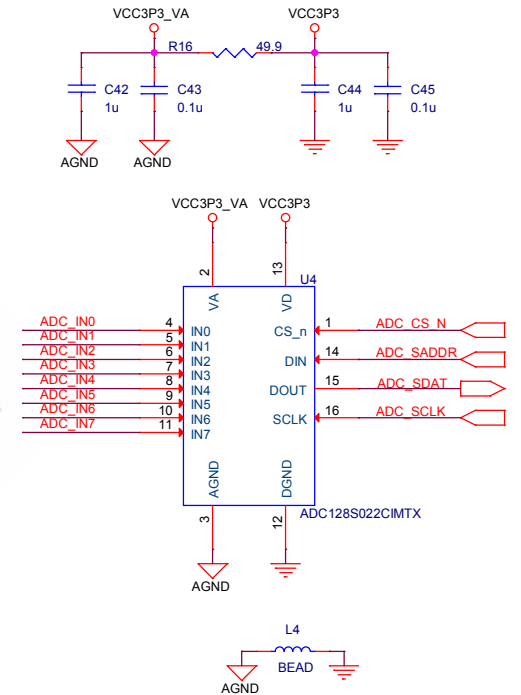



# Digital Accelerometer

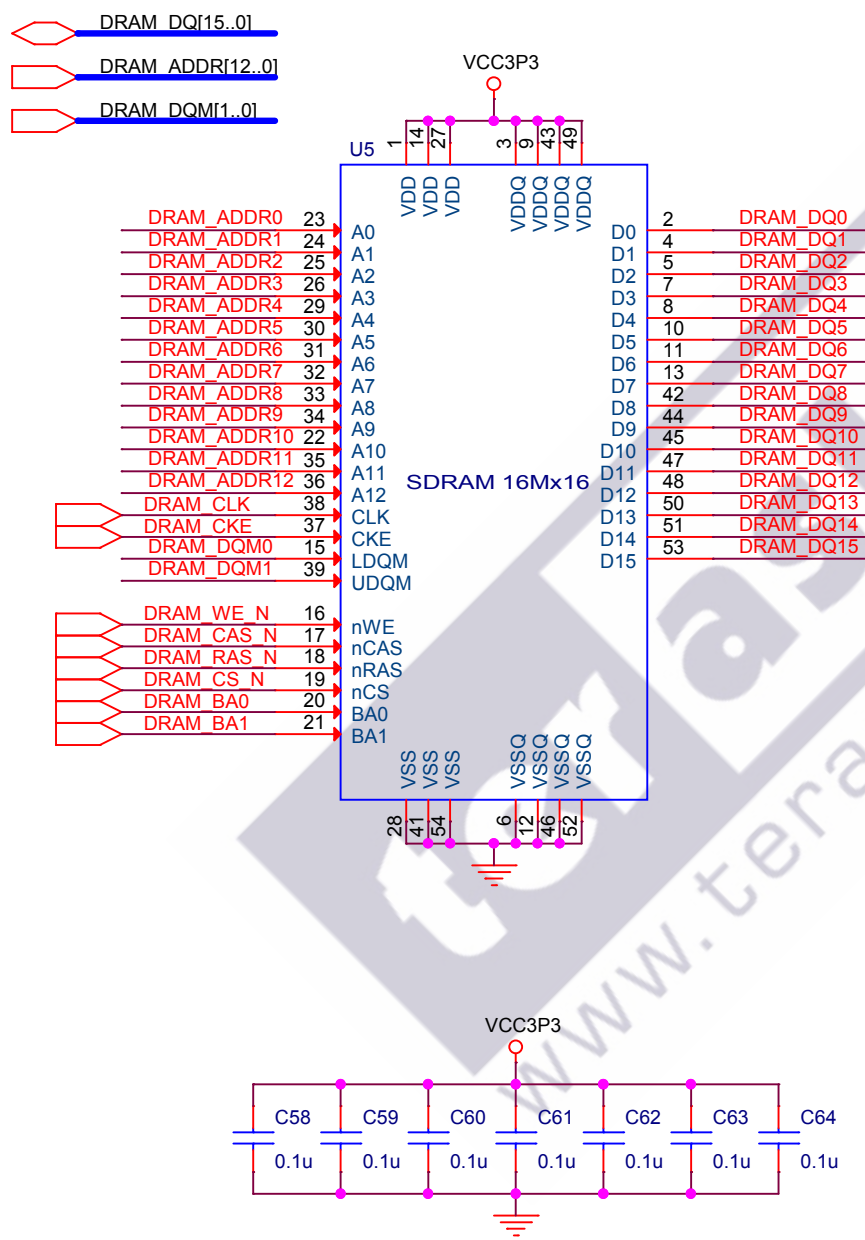
The circuit diagram illustrates the connection of an ADXL345 digital accelerometer to an Arduino Uno. The accelerometer (U3) is configured as follows:

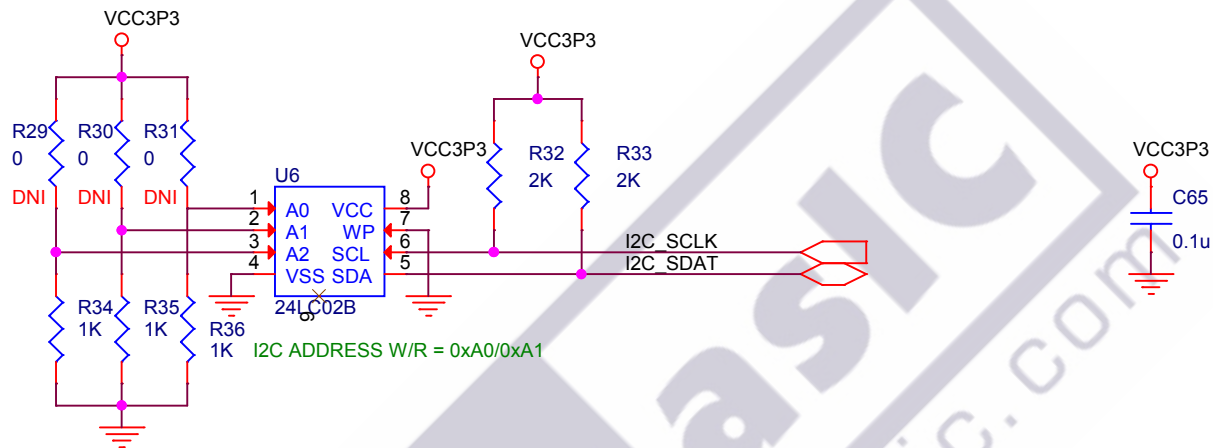
- VCC:** Connected to VCC\_5V.
- GND:** Connected to GND.
- CS\_n:** Connected to D6.
- SCL:** Connected to A5 (SCL\_SCLK).
- SDA:** Connected to A4 (SDA\_SD\_I/O).
- INT1:** Connected to D8 (G\_SENSOR\_INT).

The power supply section includes a 5V regulator (L3) with a 0.1μF capacitor (C49) at its output and a 1μF capacitor (C47) at the input. The I2C interface uses a pull-up resistor R19 (10K) connected to VCC3P3 and the SDA pin. Other components include resistors R18 (2.2K), R21 (2.2K), and capacitors C52 (4.7μF) and C53 (0.1μF) near the microcontroller's power pins.

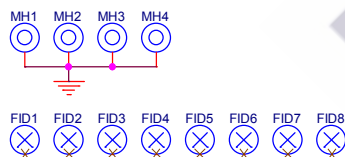
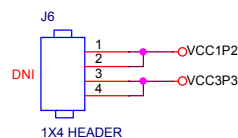
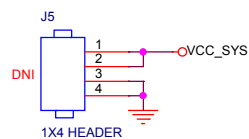
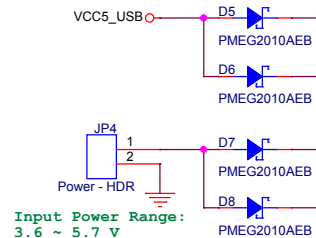


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Title			
<b>DE0-Nano Board</b>			
Size B	Document Number G-Sensor & ADC		Rev F
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# 5V Power from USB Port



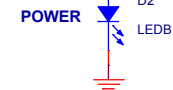
PCB1  
10-0101115-F0

VCC\_SYS

VCC\_SYS Range:  
3.3 ~ 5.5 V

VCC3P3

3.3V/1.5A



2.5V/150mA

1.2V/1.5A

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Title		
DE0-Nano Board		
Size	Document Number	Rev
B	1.2V & 2.5V & 3.3V	F
Date:	Monday, May 15, 2017	Sheet 14 of 15

