
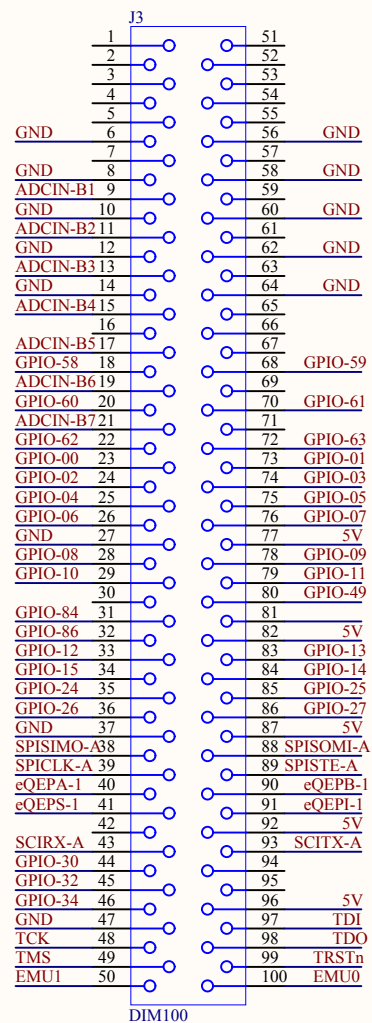
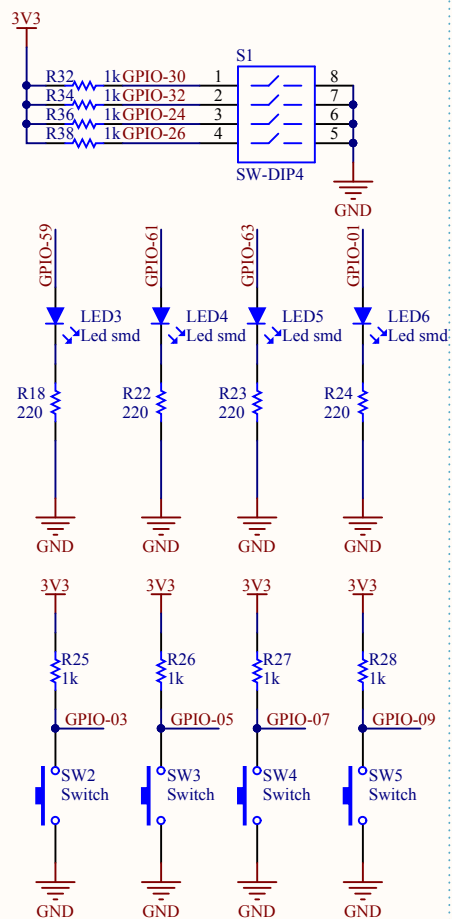


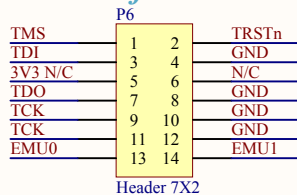
Title <b><i>Placa adaptadora TMS320F28335</i></b>			
Size: <b>A4</b>	Number:	Revision: <b>1.3</b>	
Date: <b>18/06/2015</b>	Time: <b>02:36:19 p.m.</b> Sheet <b>1</b> of <b>5</b>		
File: <b>E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\Placa adaptadora TMS320F28335</b>			



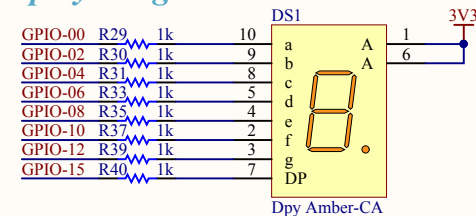
## User interface



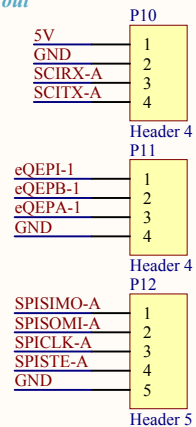
## JTAG interface



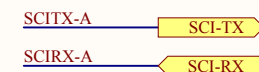
## Display 7 seg.



## Pin out



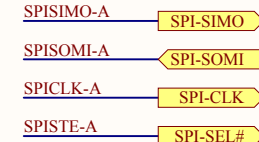
## UART



## Quadrature Encoder



## SPI



Title **TMS320F28335**

Size: **A4**

Number:

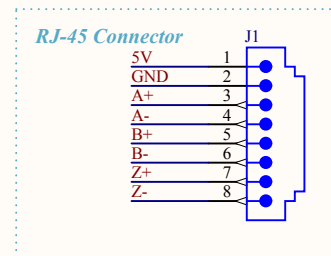
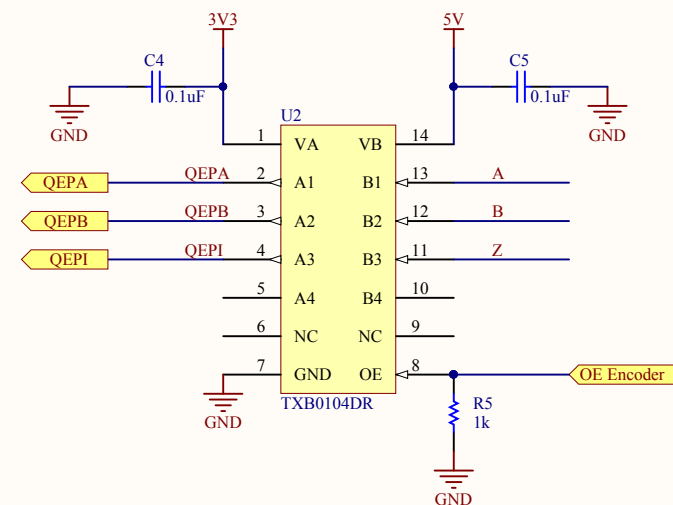
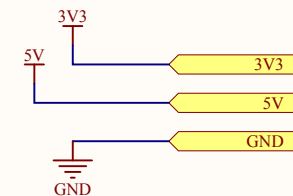
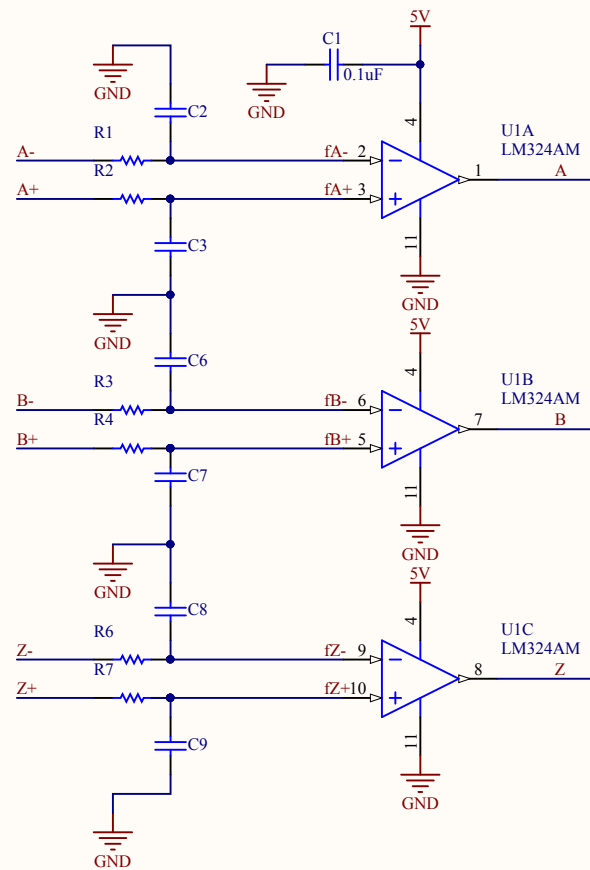
Revision: **1.3**

Date: 18/06/2015

Time: 02:36:19 p.m. Sheet 2 of 5

File: E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\TMS320F28335.SchDoc

**Altium**

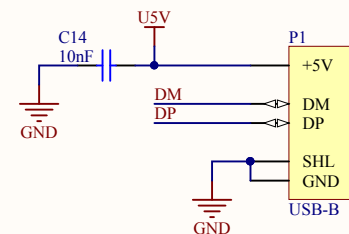
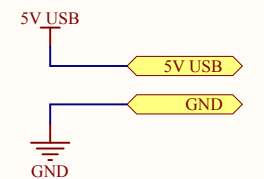
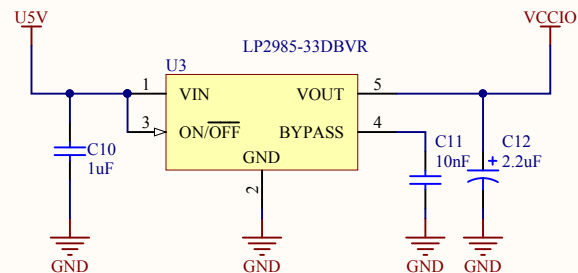
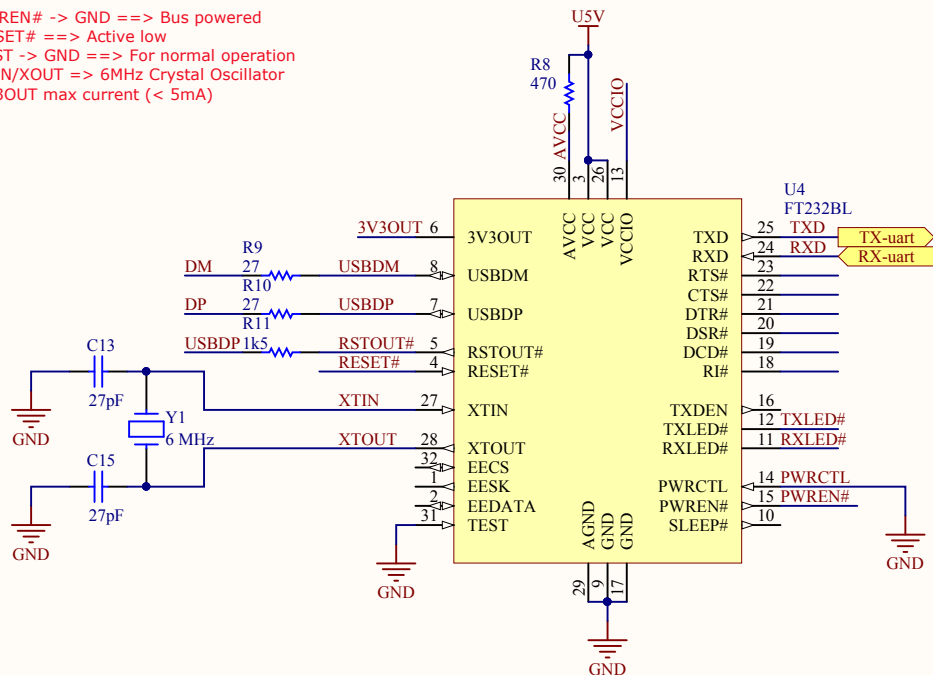


Title <b>Acondicionamiento Encoder</b>		
Size: <b>A4</b>	Number: <b>1</b>	Revision: <b>1.1</b>
Date: <b>18/06/2015</b>	Time: <b>02:36:20 p.m.</b>	Sheet <b>3</b> of <b>5</b>
File: <b>E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\Encoder.SchDoc</b>		

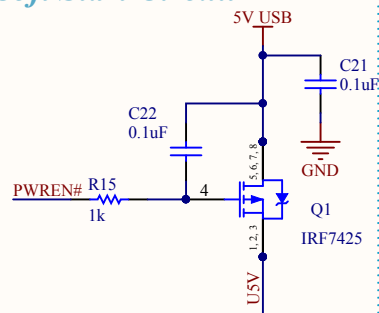


#### FT232BL configuration ####

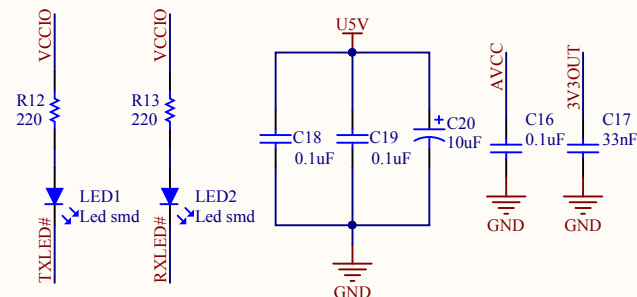
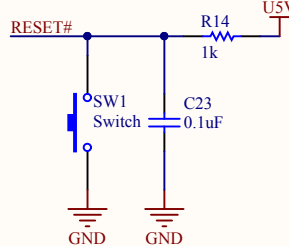
PWREN# -> GND ==> Bus powered  
 RESET# ==> Active low  
 TEST -> GND ==> For normal operation  
 XTIN/XOUT => 6MHz Crystal Oscillator  
 3V3OUT max current (< 5mA)



### Soft Start Circuit



### Reset Circuit



Title **Interface USB-UART**

Size: **A4**

Number:

Revision: **1.3**

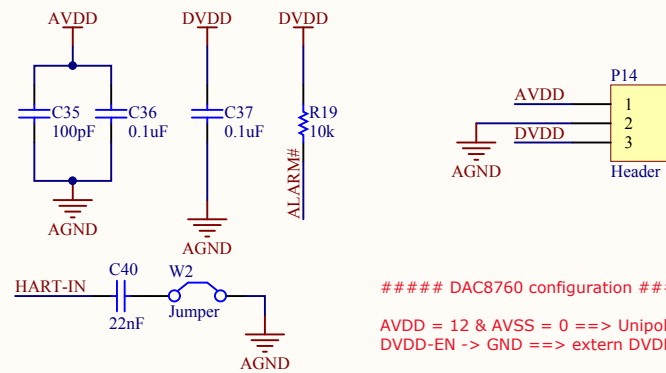
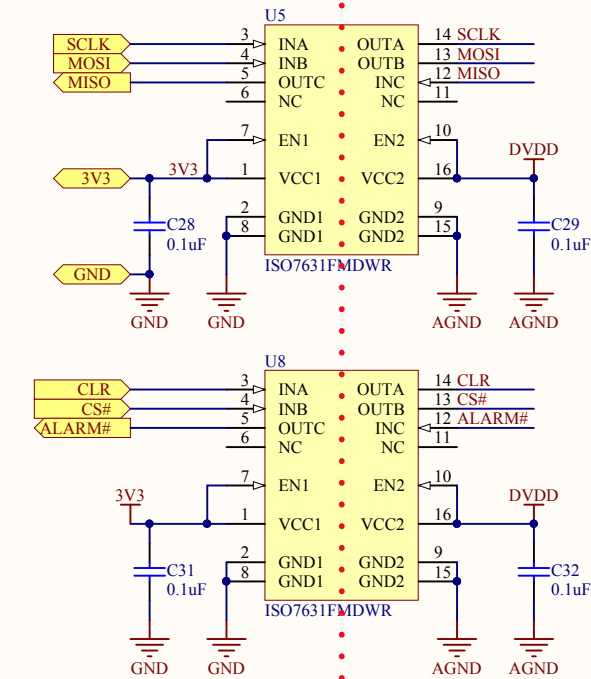
Date: 18/06/2015

Time: 02:36:20 p.m. Sheet 4 of 5

File: E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\USB-uart.SchDoc

**Altium**

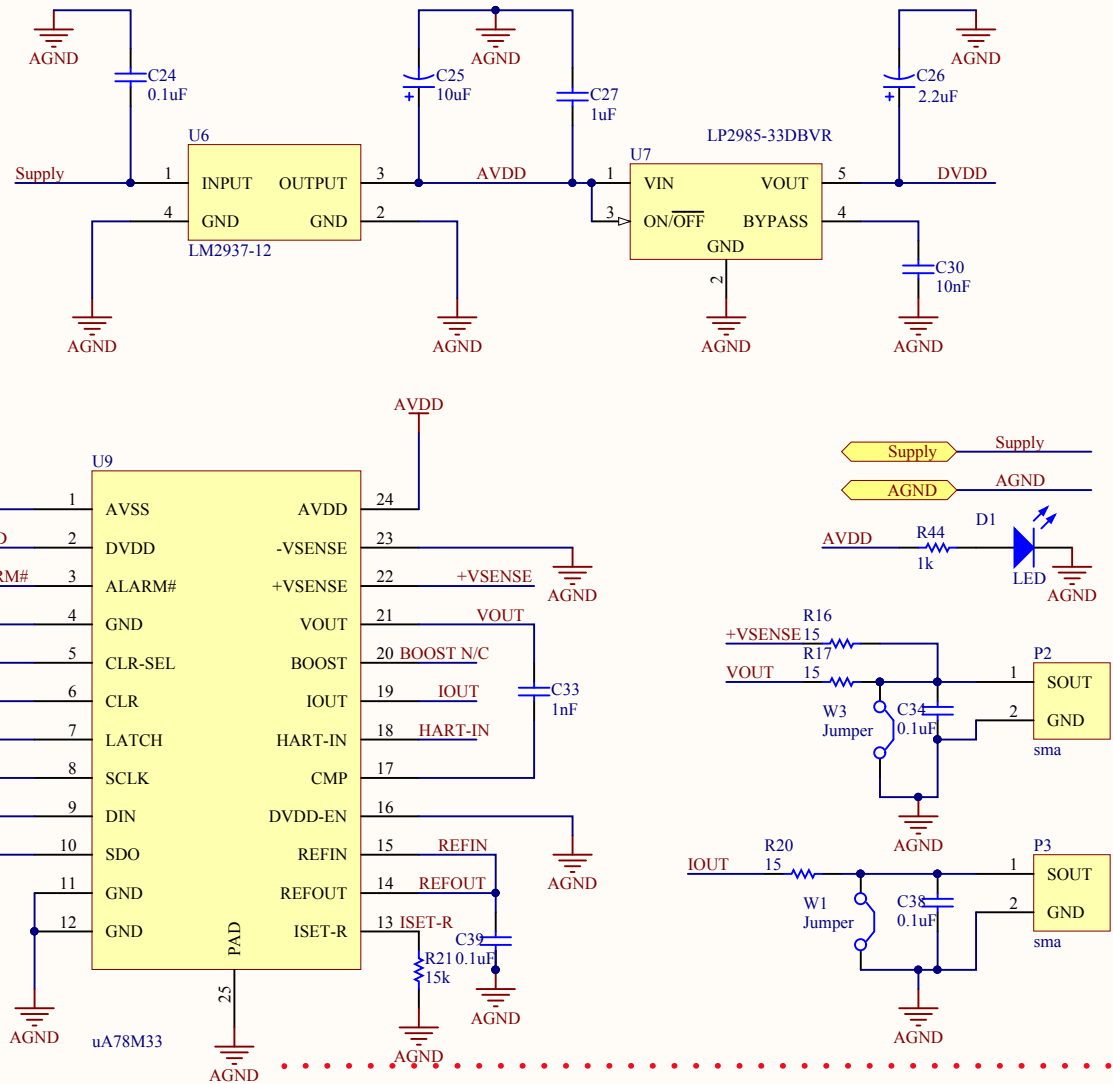
# ISOLATED MOTOR SIDE



#### DAC8760 configuration ####

AVDD = 12 & AVSS = 0 ==> Unipolar mode 0-10V  
DVDD-EN -> GND ==> exterm DVDD supply (= 3.3V).

CLR-SEL ->GND ==> Vout = 0 at Power ON or CLR mode.  
REFIN = REFOUT ==> Internal 5V reference



Title **DAC**

Size: **A4**

Number:

Revision: **1.1**

Date: 18/06/2015

Time: 02:36:21 p.m. Sheet 5 of 5

File: E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\DAC.SchDoc

**Altium**

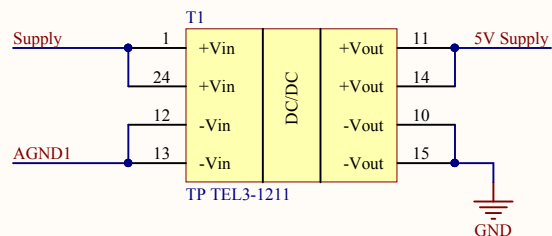
1

2

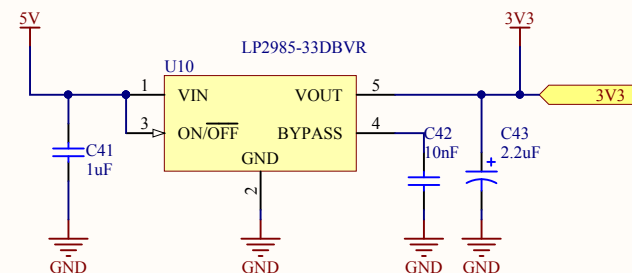
3

4

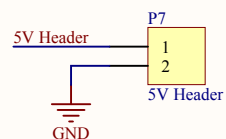
### 5V Isolated supply



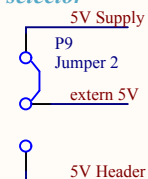
### 3V3 regulator



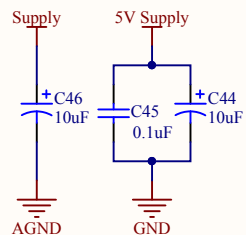
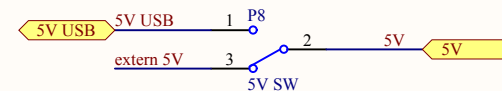
### 5V Header



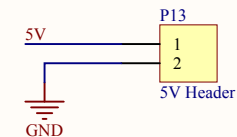
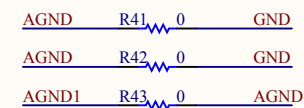
### Extern source selector



### 5V Switch



### Extern Supply

Title **Power Supply**Size: **A4**

Number:

Revision: **1.0**

Date: 18/06/2015

Time: 02:36:21 p.m. Sheet 6 of 6

File: E:\Facultad de Ingenieria\Trabajo Final\Circuito\Altium\Placa adaptadora TMS320F28335 - PCB\SupplyPower.SchDoc

**Altium**

