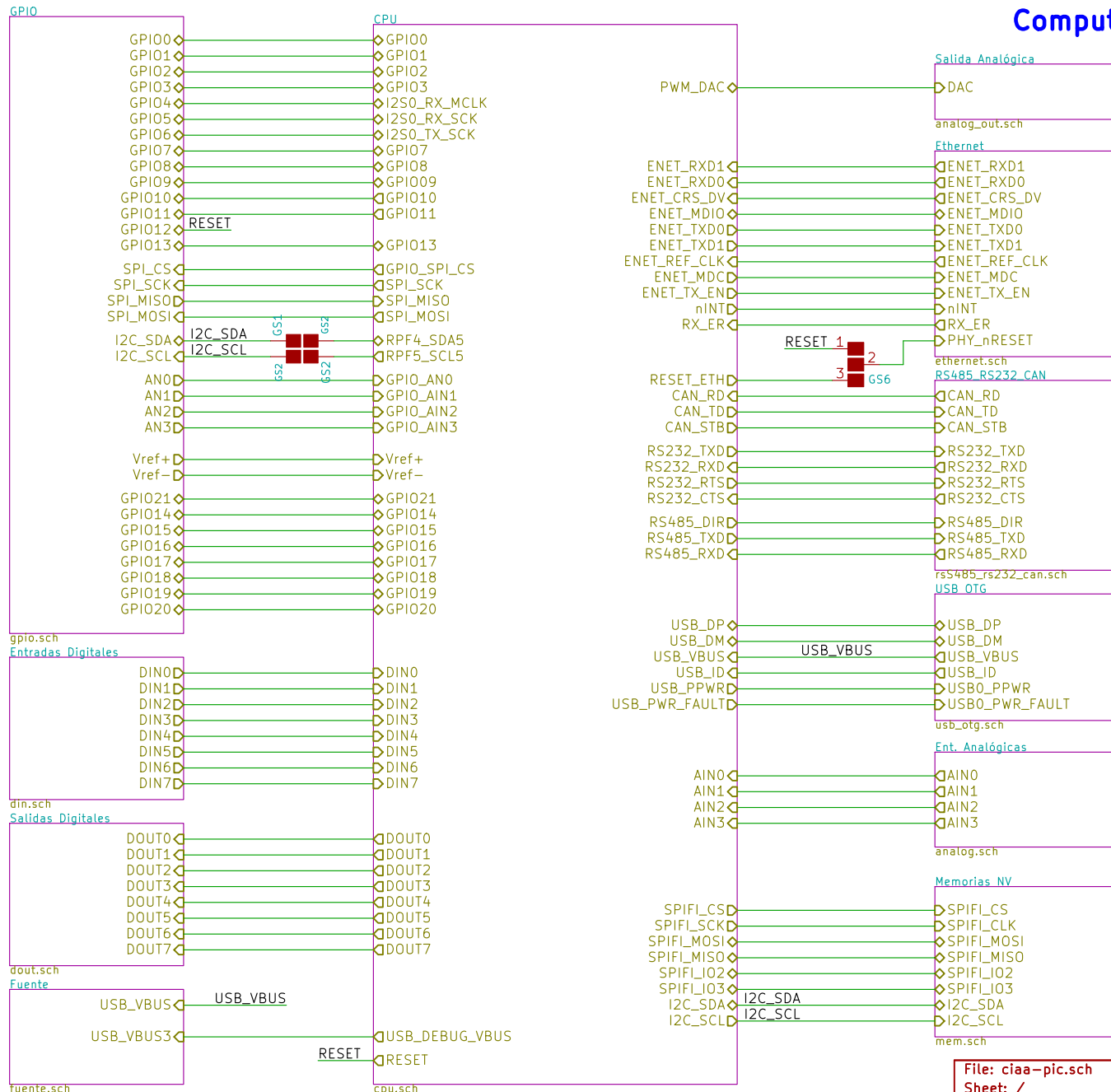
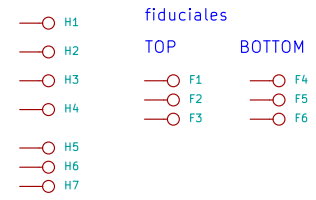


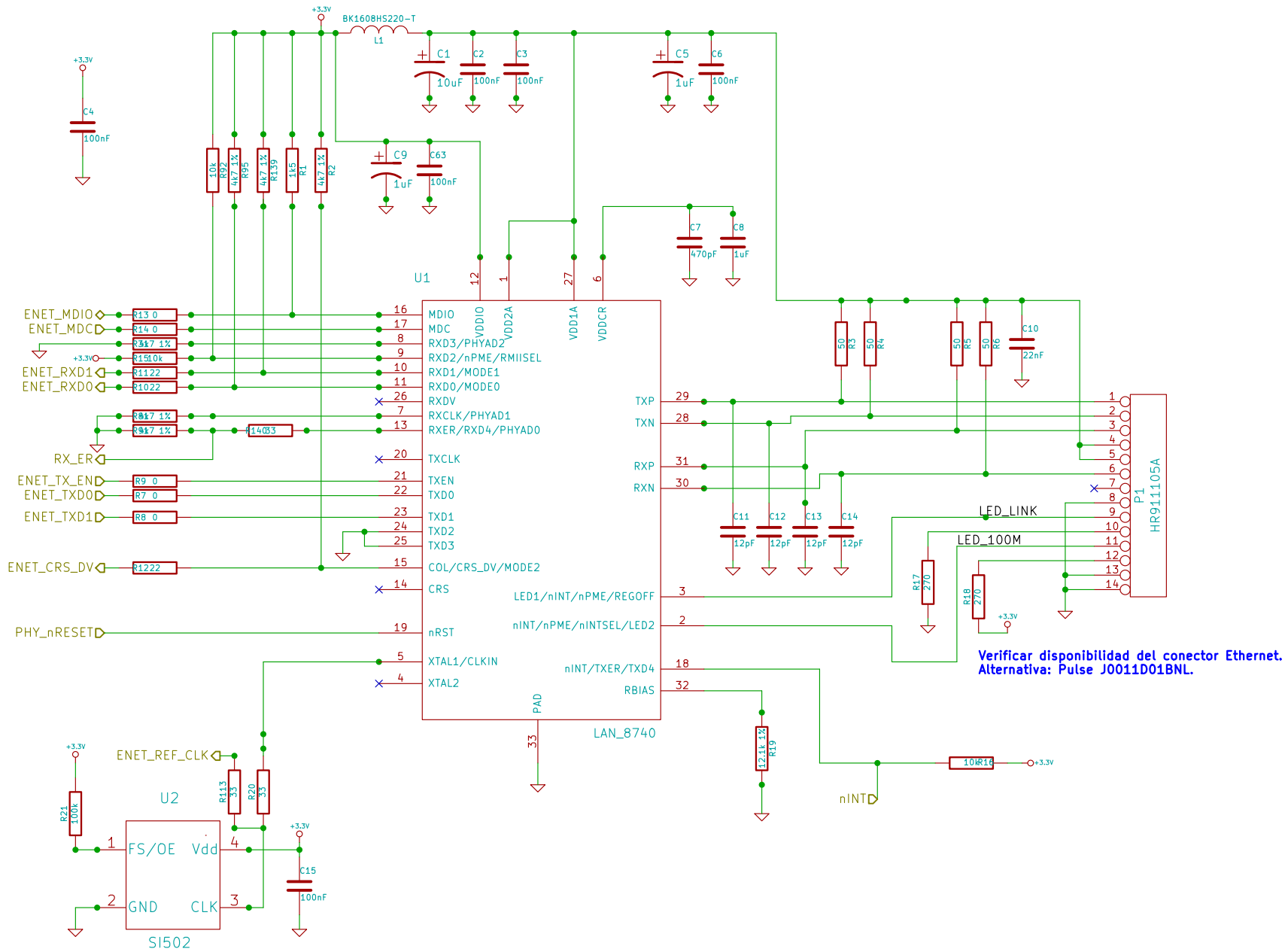
Computadora Industrial Abierta Argentina Versión Microchip (PIC32MZ)



- Índice:
1. Esquemático jerárquico
 2. CPU
 3. Ethernet
 4. RS485/RS232/CAN
 5. USB OTG
 6. GPIO
 7. Entradas digitales
 8. Salidas digitales
 9. Entradas analógicas
 10. Salida analógica
 11. Memorias NV
 12. Fuente de alimentación

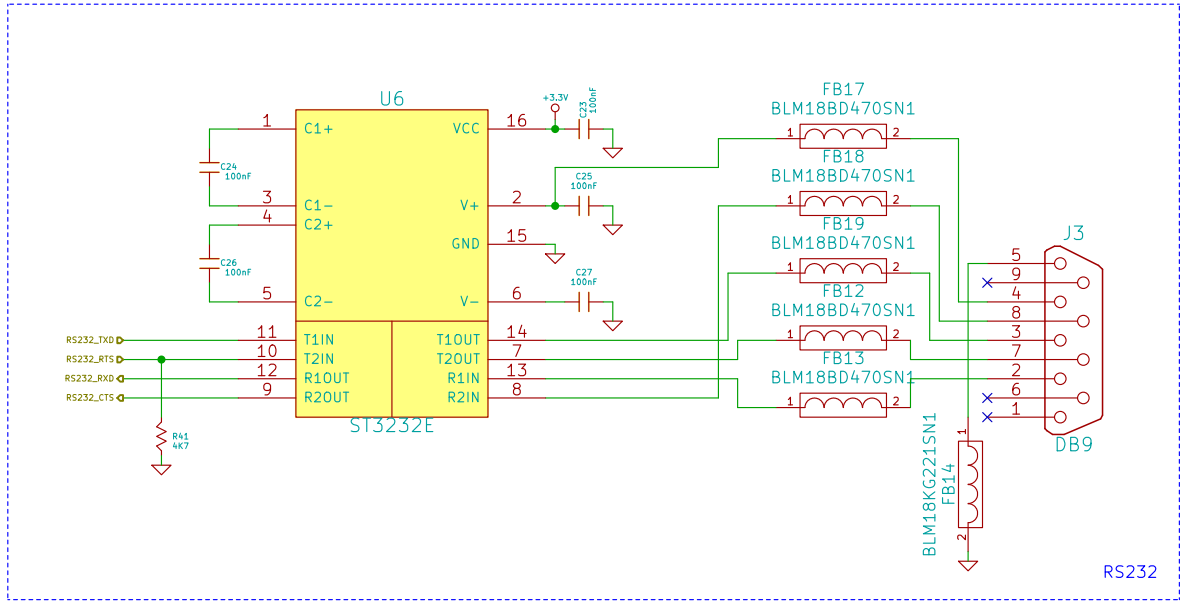
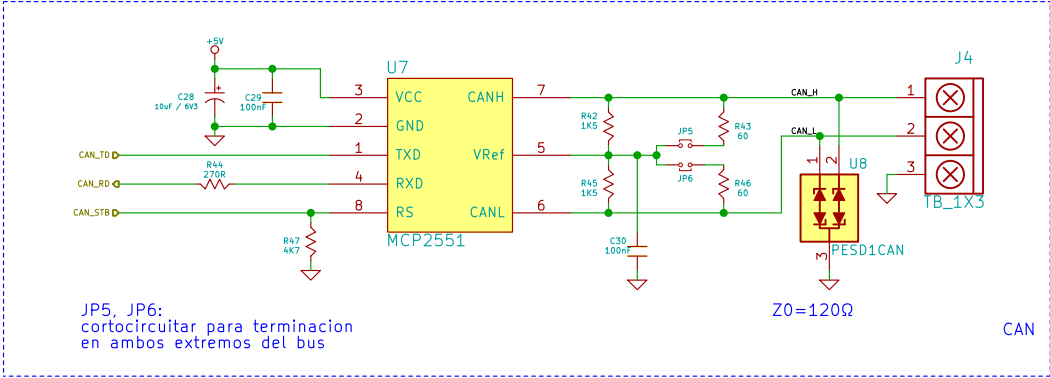
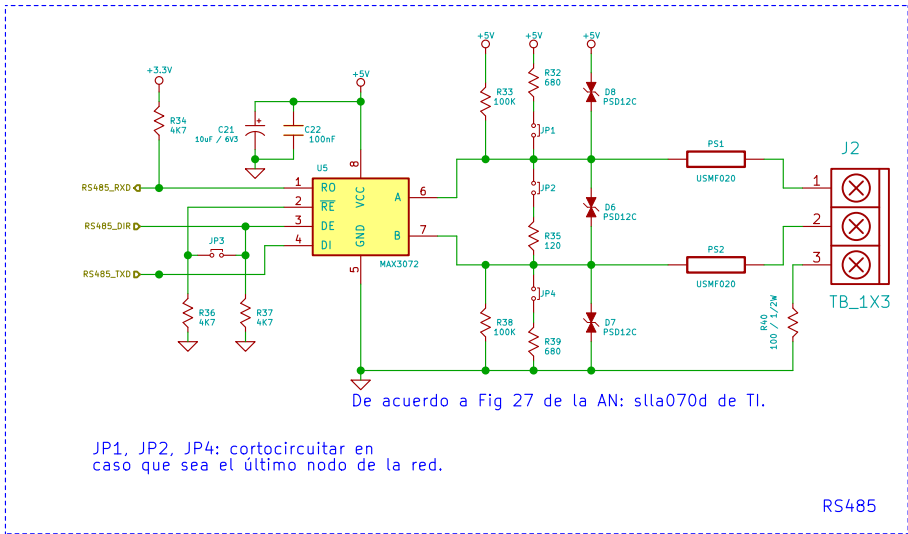


File: ciaa-pic.sch		Rev: 1.0	
Sheet: /		Date: 6 feb 2015	
Title: CIAA PIC32	Size: A4	Id: 1/12	
KiCad E.D.A.			

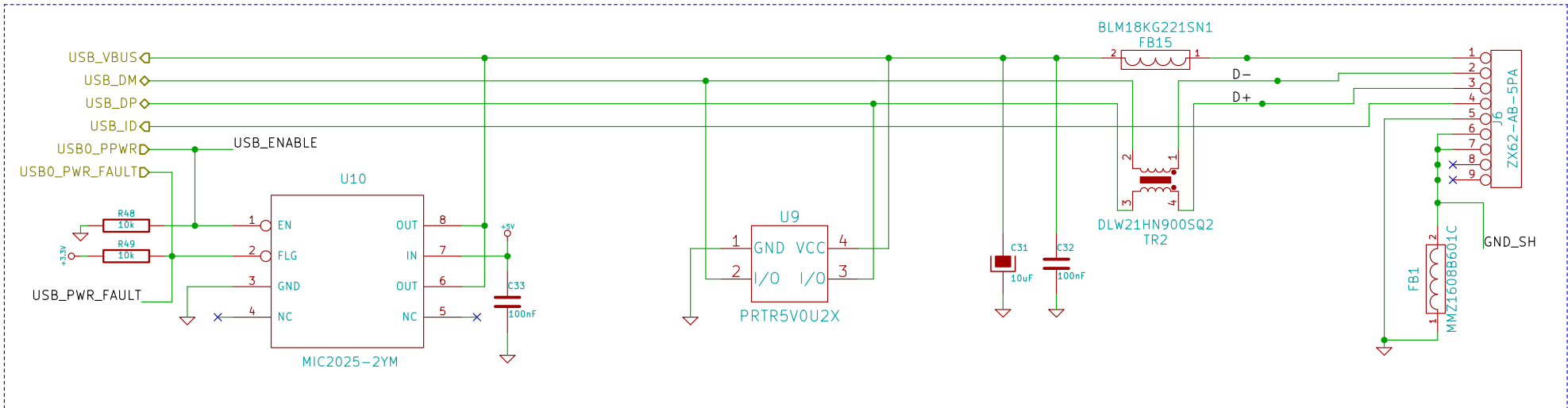
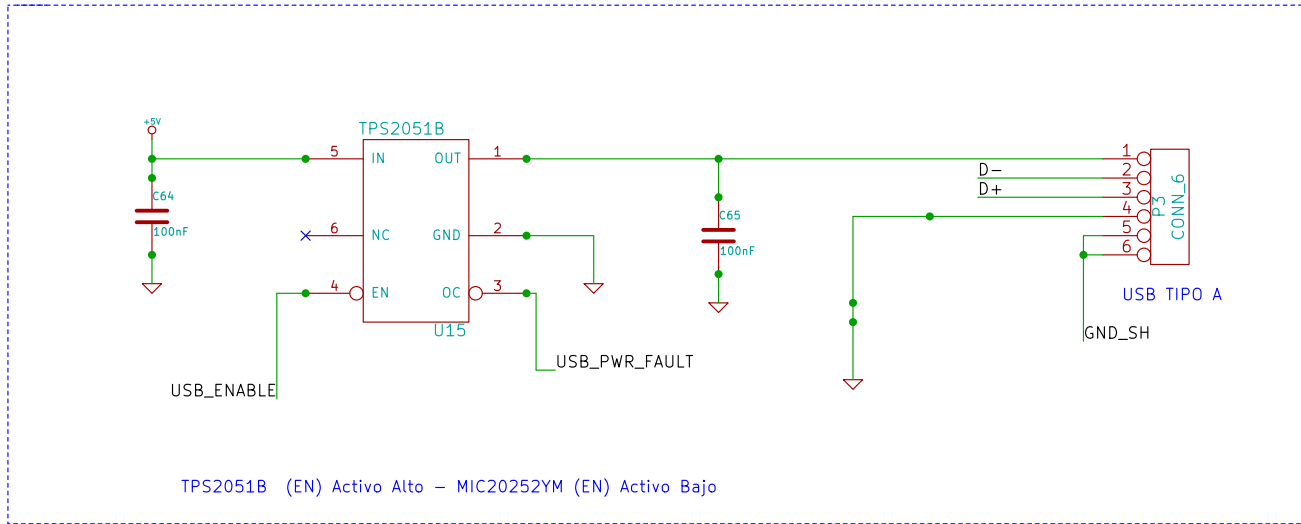


Verificar disponibilidad del conector Ethernet.
 Alternativa: Pulse J0011D01BNL.

File: ethernet.sch		Rev: 1.0	
Sheet: /Ethernet/		Date: 6 feb 2015	
Title: CIAA PIC32 Ethernet	Size: A4	Id: 2/12	
KiCad E.D.A.			

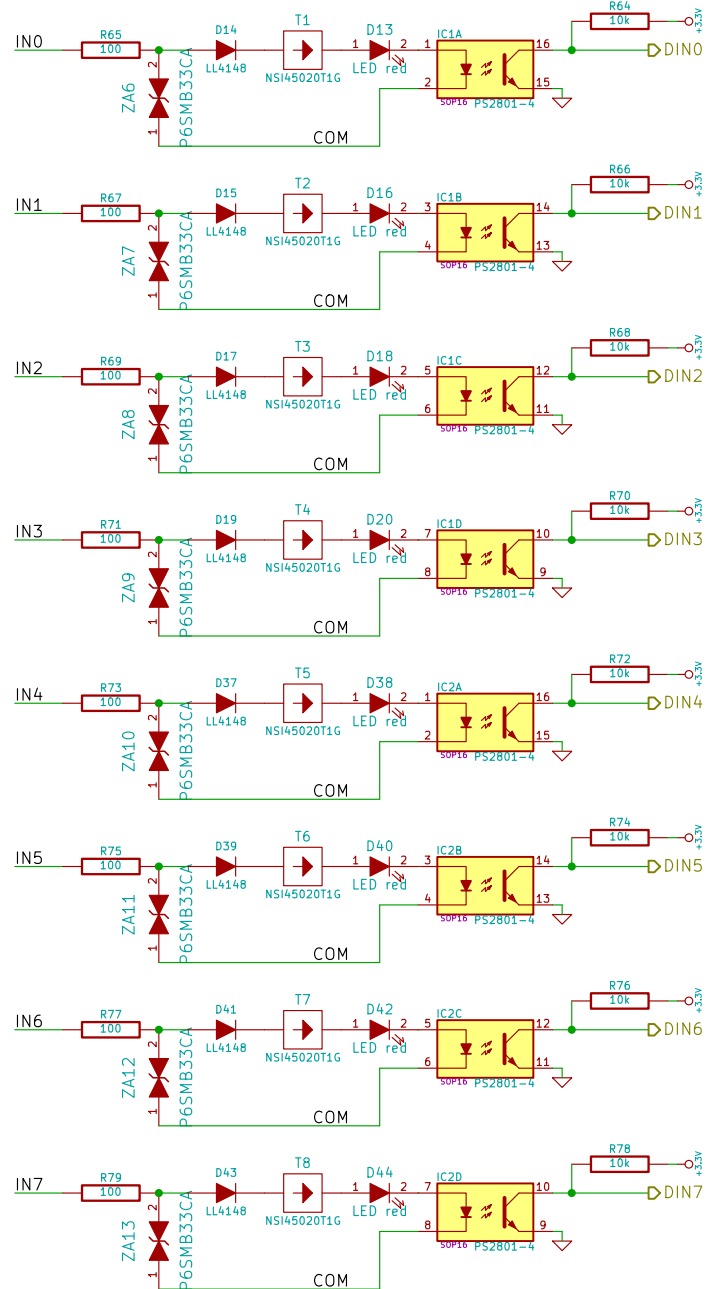
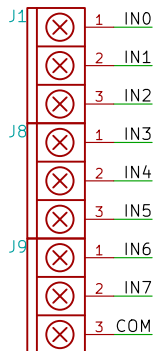


File: rs485_rs232_can.sch		Rev: 1.0	
Sheet: /RS485_RS232_CAN/		Id: 3/12	
Title: CIAA RS485 - RS232 - CAN			
Size: A4	Date: 6 feb 2015		
KiCad E.D.A.			



File: usb_otg.sch		Rev: 1.0	
Sheet: /USB OTG/		Id: 4/12	
Title: USB OTG - USB HOST CIAA			
Size: A4	Date: 6 feb 2015		
KiCad E.D.A.			

Diodo:
 $V_f = 1.4V$
 $I_f = 10mA$



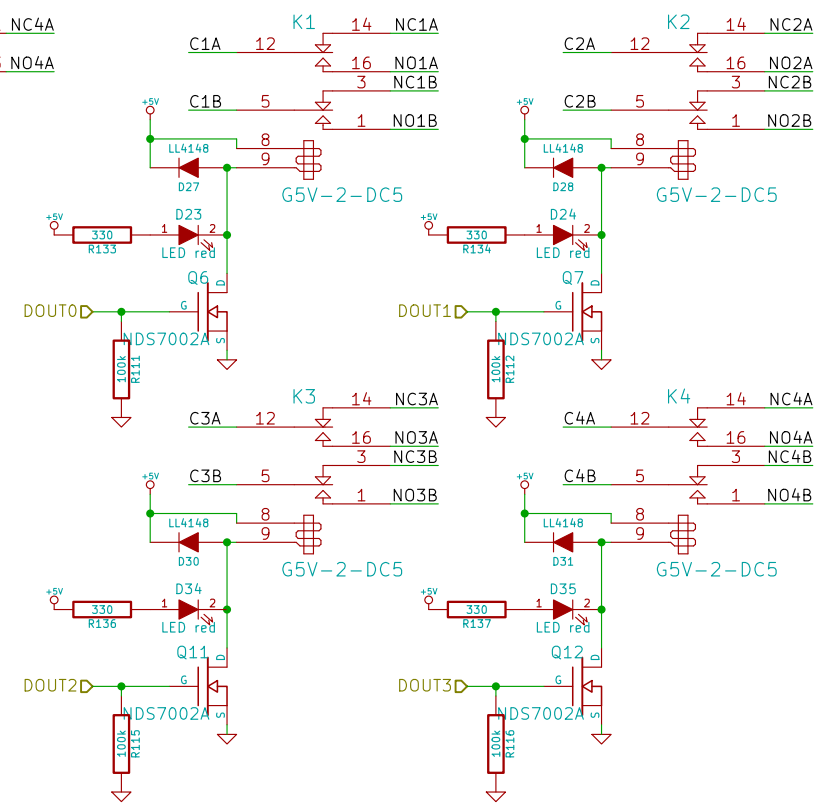
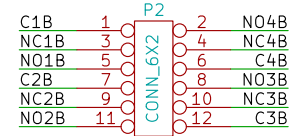
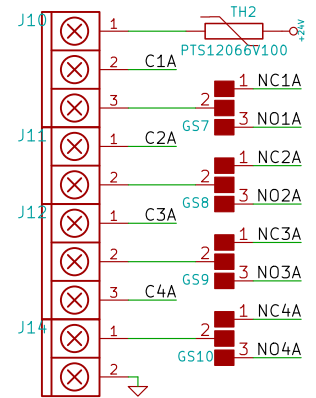
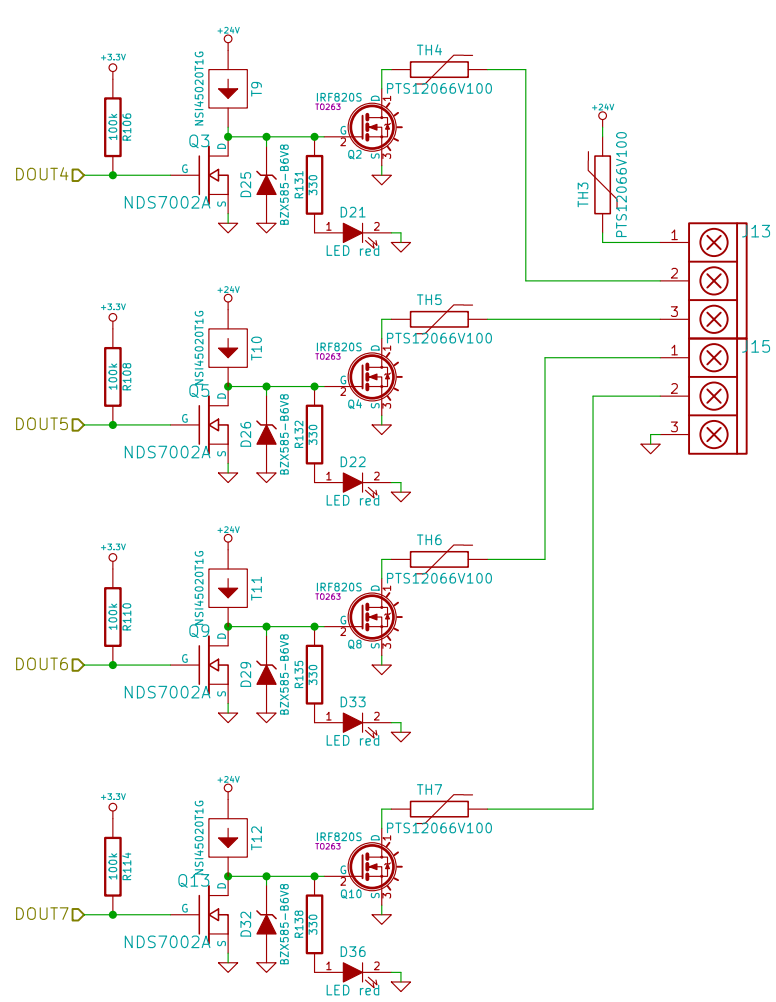
Entradas optoacopladas por bornera.
 Rango de Voltaje de entrada aproximado: 10 a 30V (CC).
 Protección contra sobrevoltaje y polarización inversa,
 limitación de corriente.

File: din.sch	
Sheet: /Entradas Digitales/	
Title: CIAA Entradas Digitales	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 5/12

Resistores 3.3kohm, 250mW
ERJ-8GEYJ332V

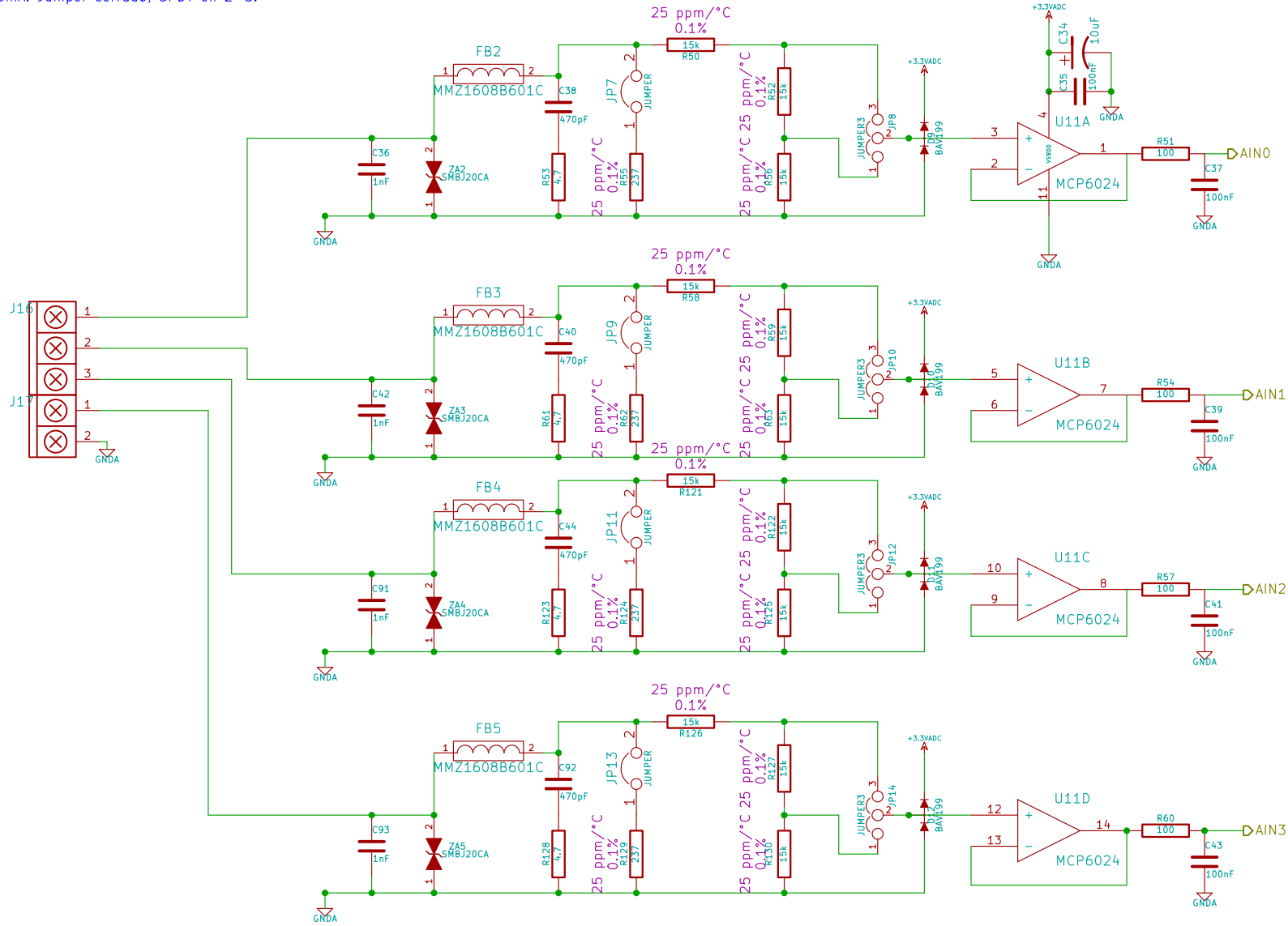
Salidas digitales Open-Drain por bornes (P10). Corriente de Drain limitada a 1A.
Salidas digitales a Relé por bornes (P11). Corriente máxima de contactos C, NC y NO: 2A.

Relé alternativo de menor corriente de bobina:
C93401

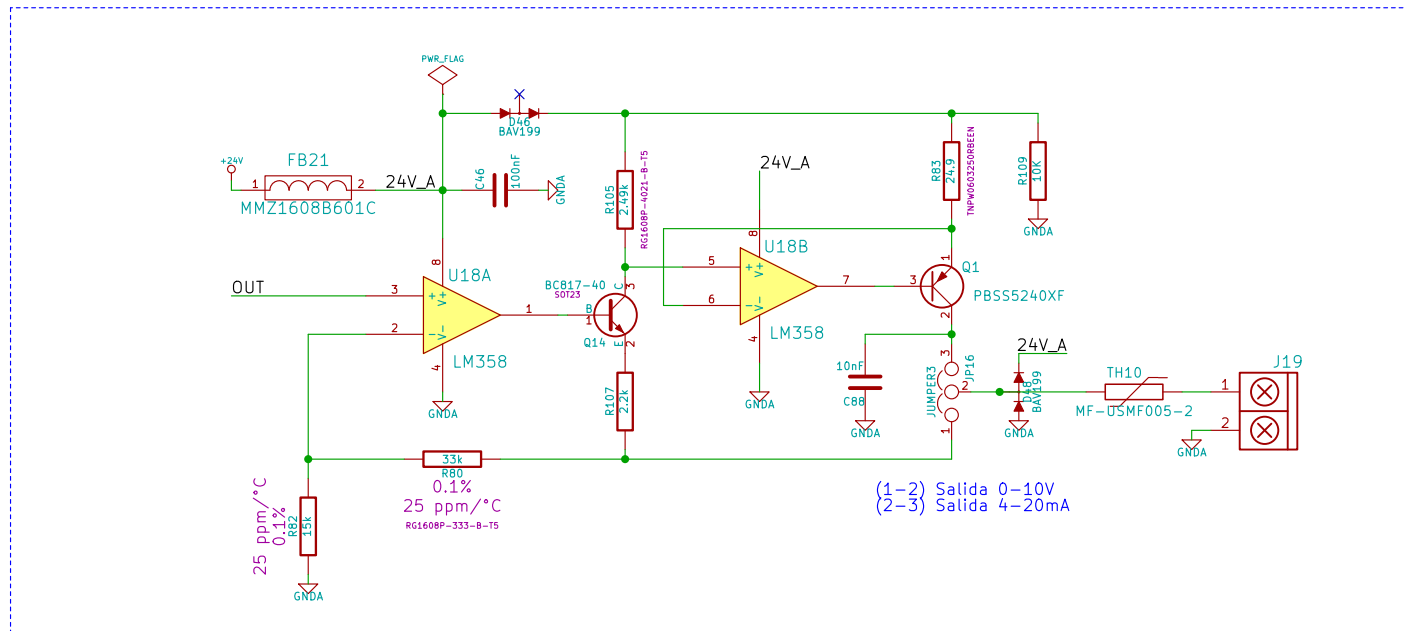
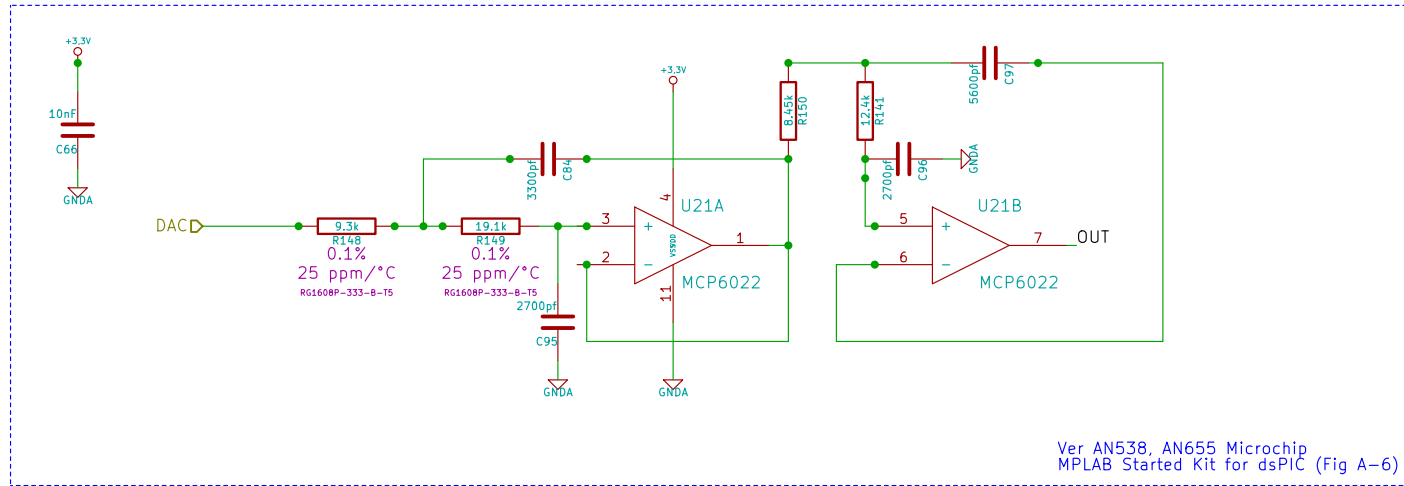


File: dout.sch	
Sheet: /Salidas Digitales/	
Title: CIAA Salidas Digitales	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 6/12

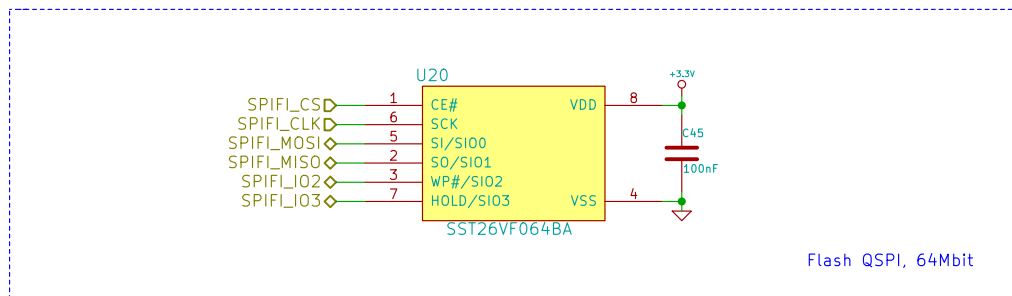
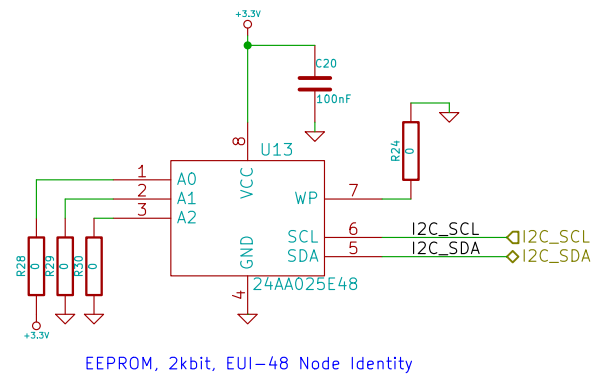
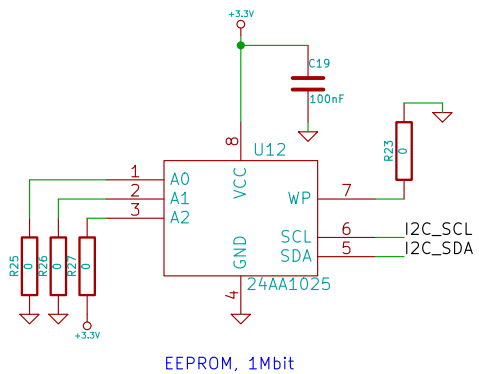
0-10V: Jumper abierto, SPDT en 1-2.
 0-20mA: Jumper cerrado, SPDT en 2-3.



Javier Goglino - SesentaCuarenta	
File: analog.sch	
Sheet: /Ent. Analógicas/	
Title: CIAA - Entradas Analógicas	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 7/12

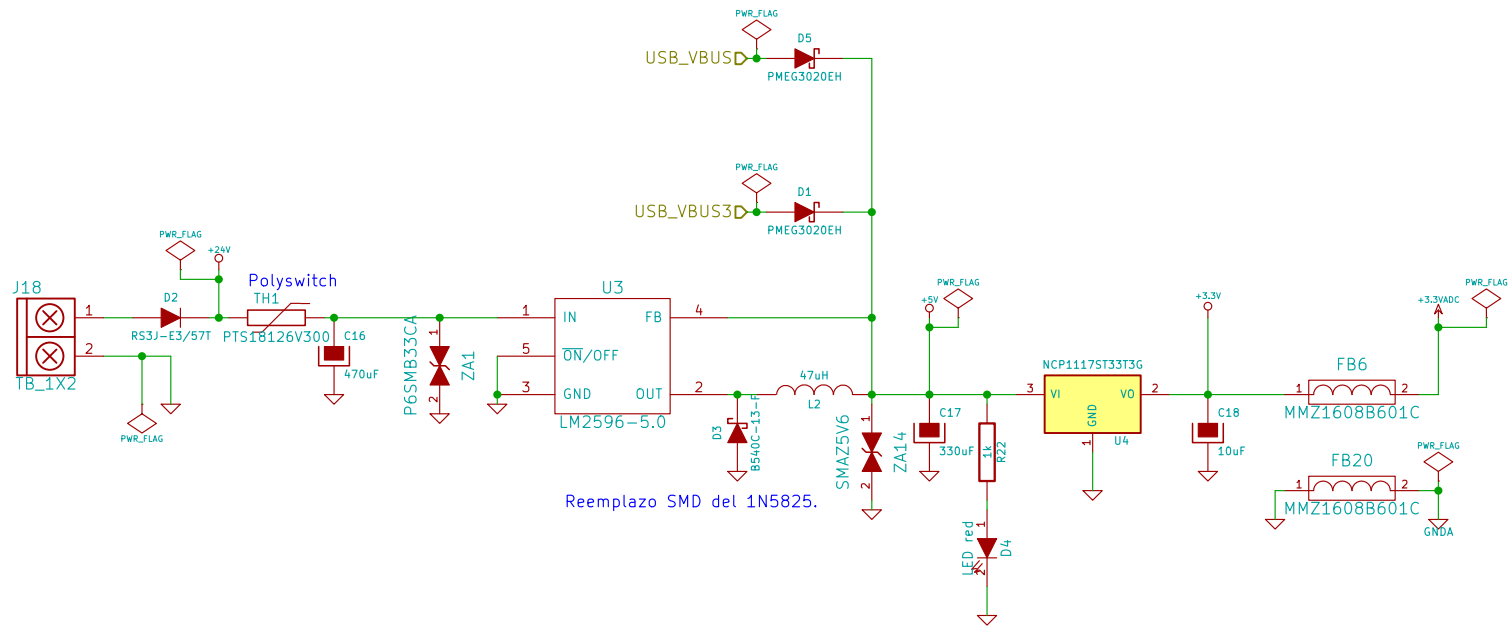


File: analog_out.sch	
Sheet: /Salida Analógica/	
Title: CIAA - Salida Analógica	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 8/12



File: mem.sch	
Sheet: /Memorias NV/	
Title: CIAA micro SD card	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 9/12

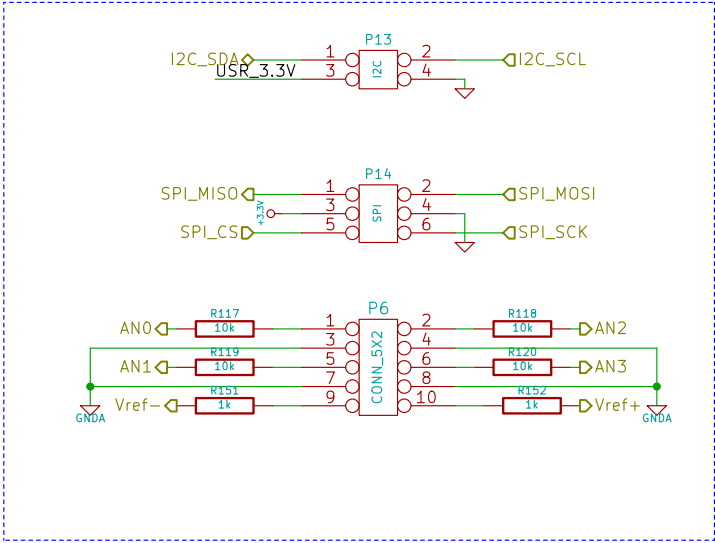
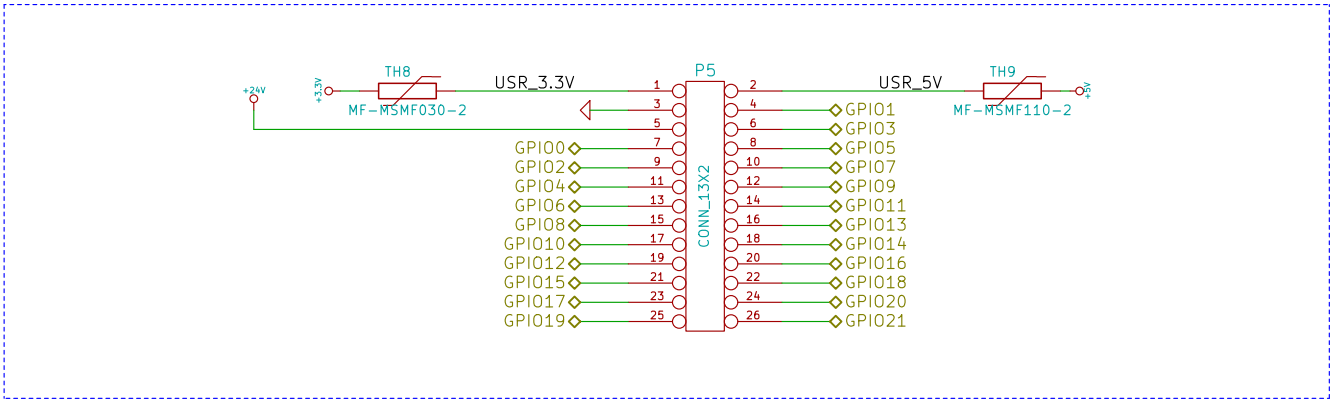
Fuente de alimentación con rango aproximado de entrada de 12 a 30V (CC).
 Tensiones de salida: 5V, 3A y 3.3V, 1A.
 Posibilidad de alimentar la CIAA a través del puerto USB mediante la conexión con D1.



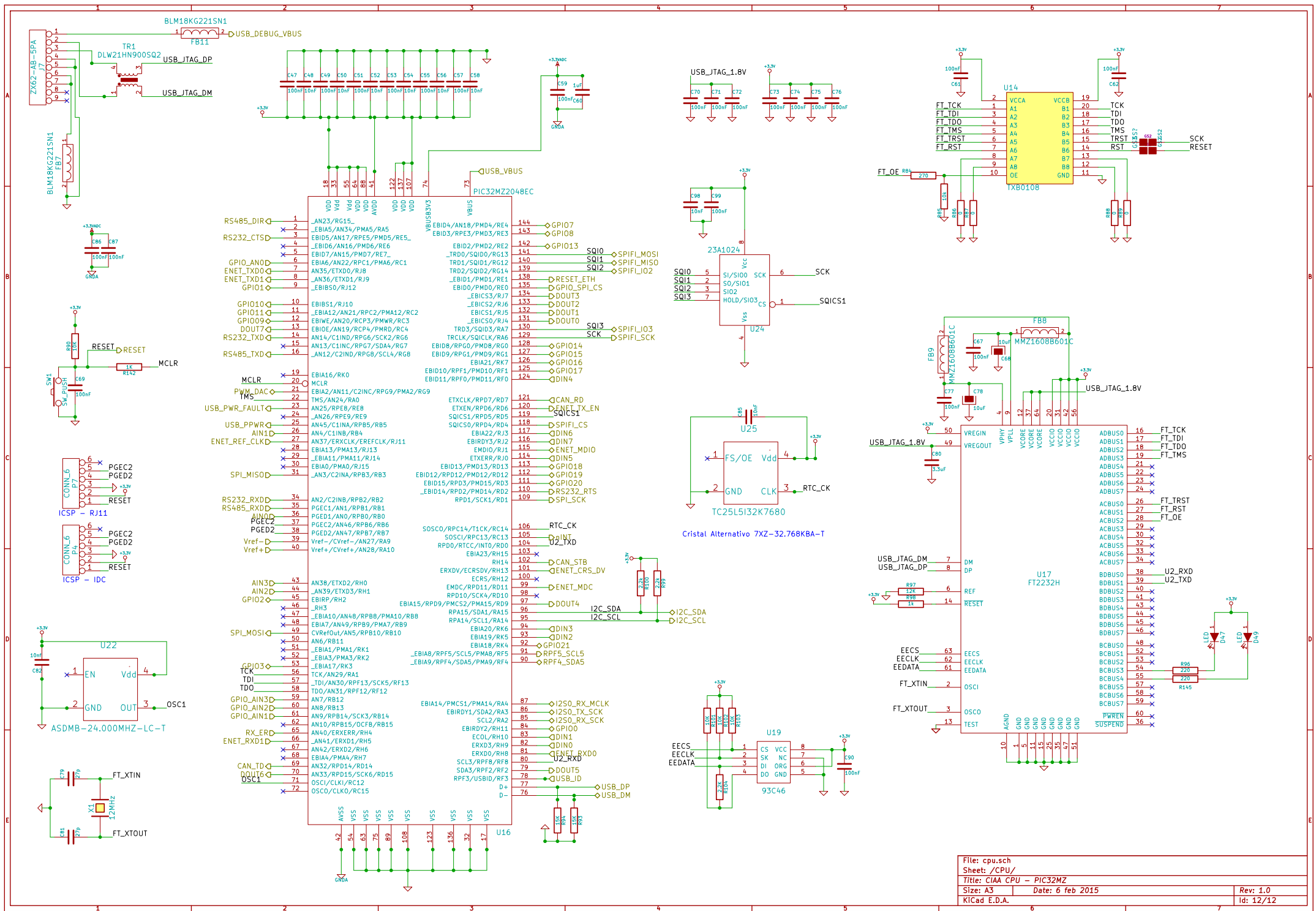
Reemplazo SMD del 1N5825.

File: fuente.sch			
Sheet: /Fuente/			
Title: CIAA Fuente de alimentación			
Size: A4	Date: 6 feb 2015	Rev: 1.0	
KiCad E.D.A.		Id: 10/12	

Conectores de expansión LVTTL.
En formato de pines, 2.54mm de pitch.



File: gpio.sch	
Sheet: /GPIO/	
Title: CIAA GPIO/SPI/I2C/USB/ANALOG	
Size: A4	Date: 6 feb 2015
KiCad E.D.A.	Rev: 1.0
	Id: 11/12



File: cpu.sch	Sheet: /CPU/	Size: A3	Date: 6 feb 2015	Rev: 1.0
Title: CIAA CPU - PIC32M2				
KICad E.D.A.				