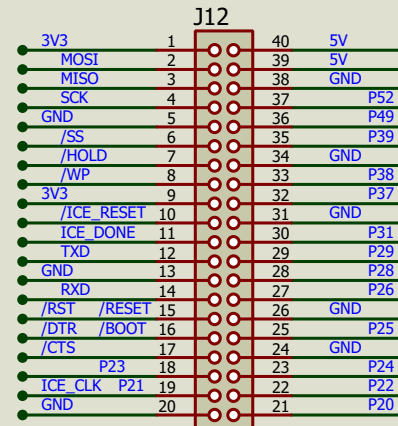
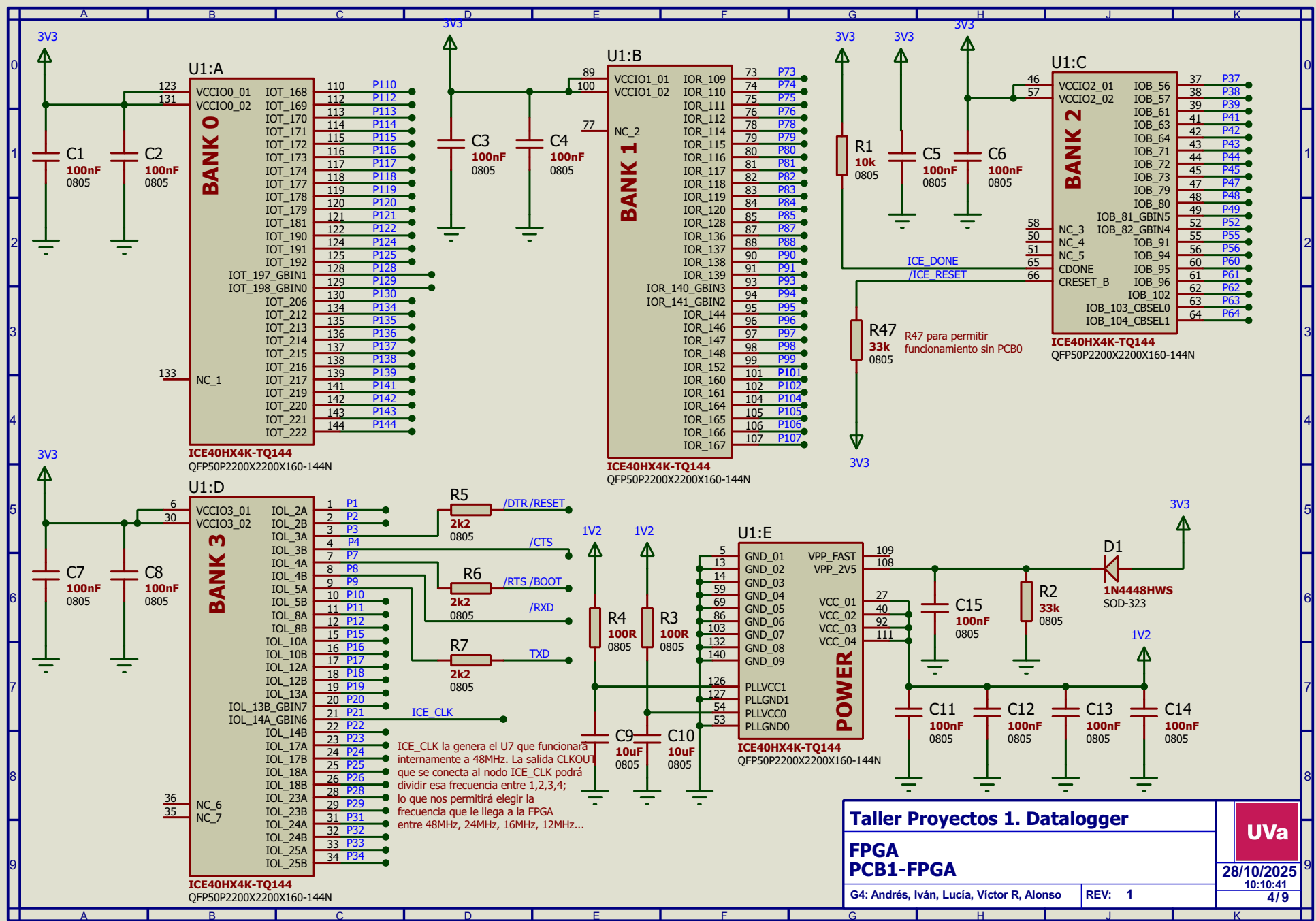
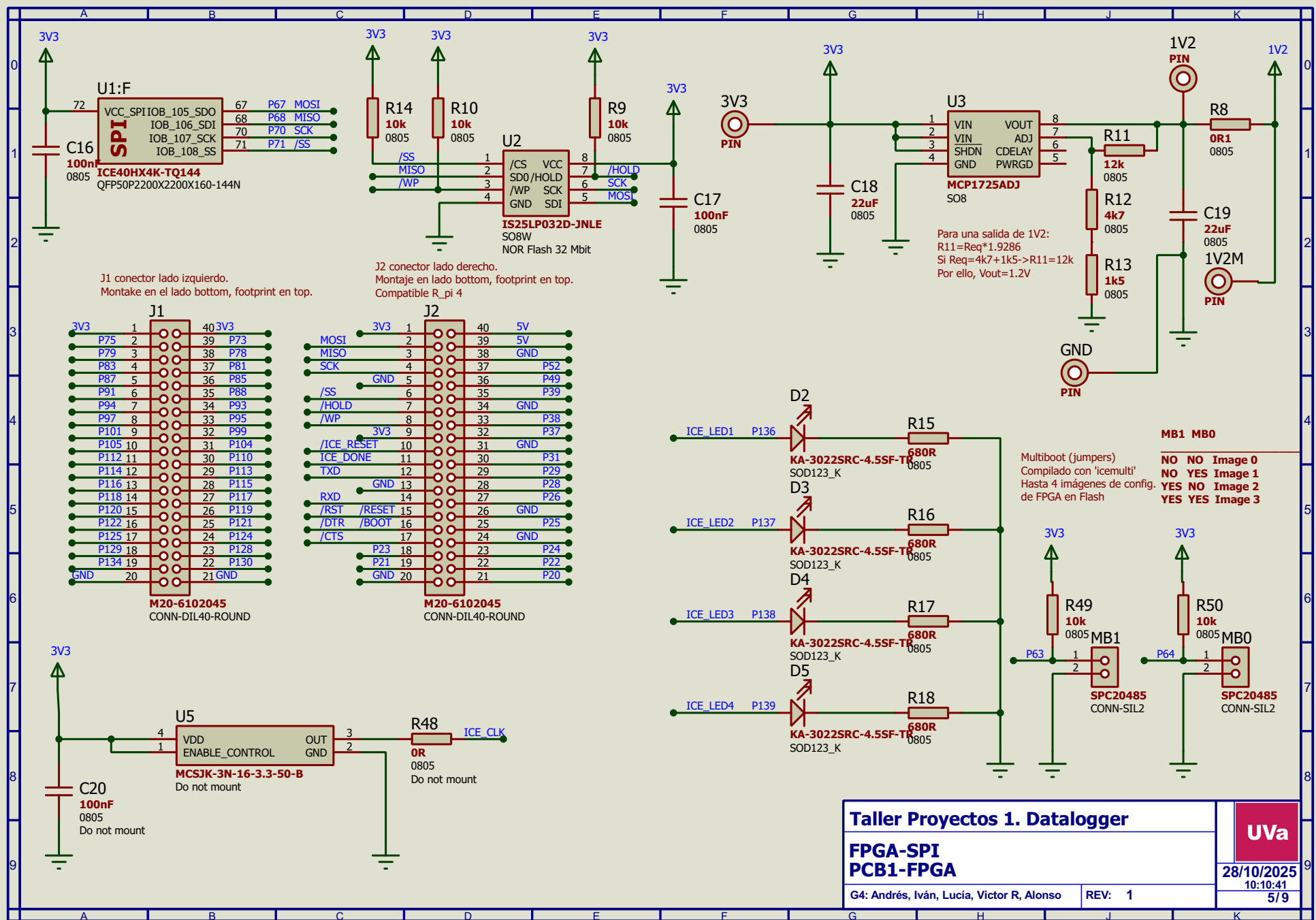


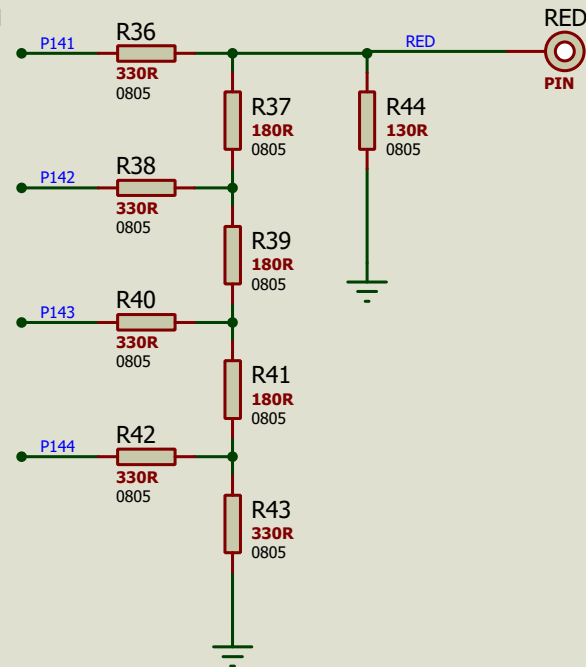
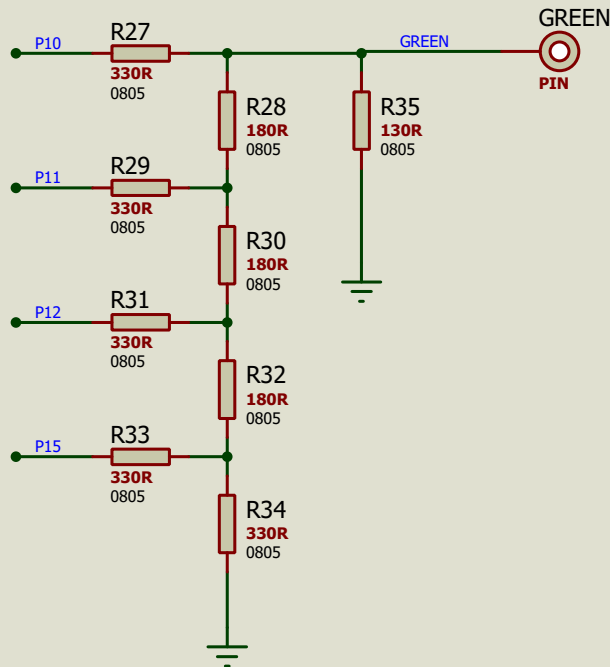
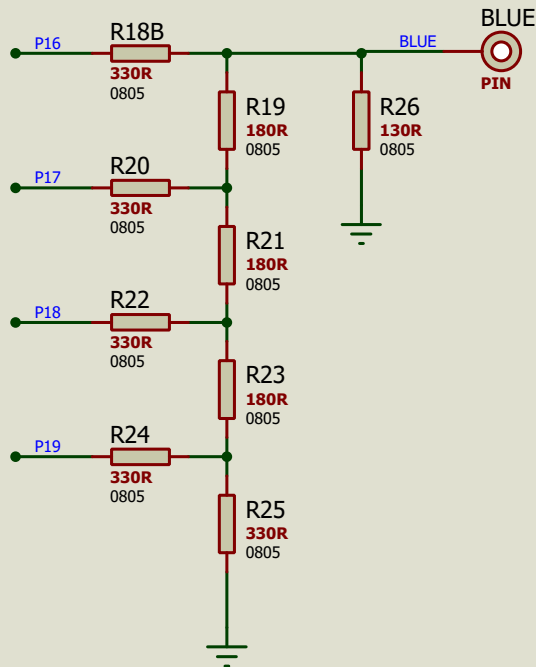
**2214S-40SG-85**  
CONN-DIL40-ROUND



**2214S-40GS-85**  
CONN-DIL40-ROUND





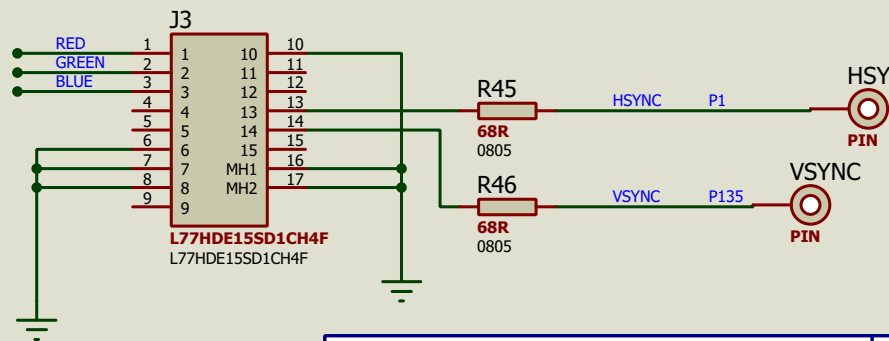


VGA (Video Graphics Array)  
Analog output.  
Tres componentes de color analógica:  
RED, GREEN, BLUE; con 16 niveles cada uno.  
Usamos un convertidor DAC de tipo red R-2R.

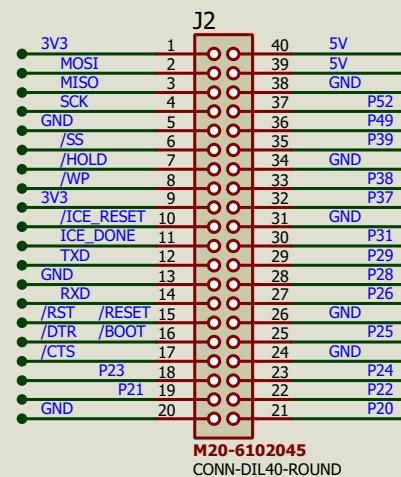
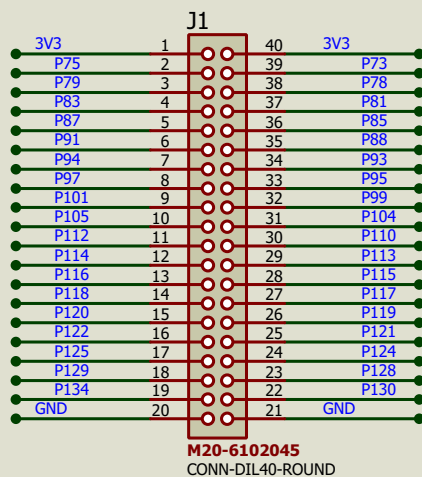
HSYNC sincronismo horizontal.  
VSYNC sincronismo vertical.

Los niveles son de 0.7Vpp

La impedancia de la red de resistencias  
se ha calculado para que sea de 750h.  
El acoplo de impedancias será correcto.







Uso de pines de la FPGA:

P28 5V\_CE Enciende fuente 5v

P22 EN\_5V\_M4  
P24 EN\_14V\_M4

P25 Contgrola M2\_ON\_OFF

P26 ADC\_CS Activo en baja

P28 SCL Tiene pull-up 10k  
P29 SDA Tiene pull-up 10k

P31 0ME680\_CS Activo en baja

P37 ICE\_SCK  
P38 ICE\_MOSI

P49 GPS\_TX  
P52 GPS\_RX

**Taller Proyectos 1. Datalogger**

**Conectores  
PCB2-Sensors**

G4: Andrés, Iván, Lucía, Víctor R, Alonso

REV: 1

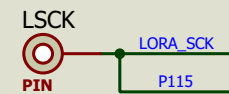
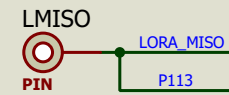
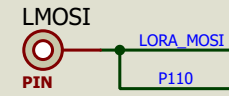
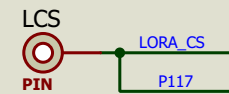
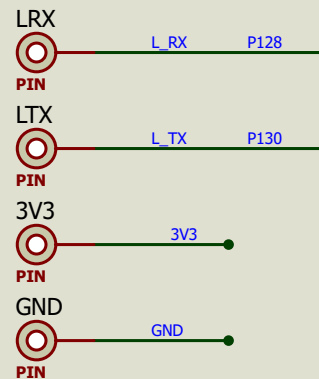
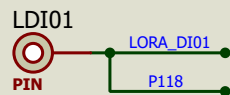
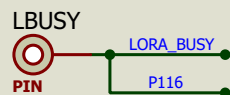
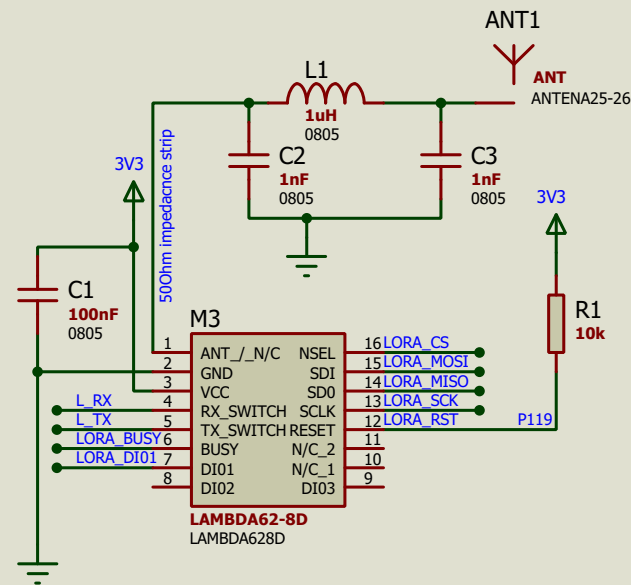
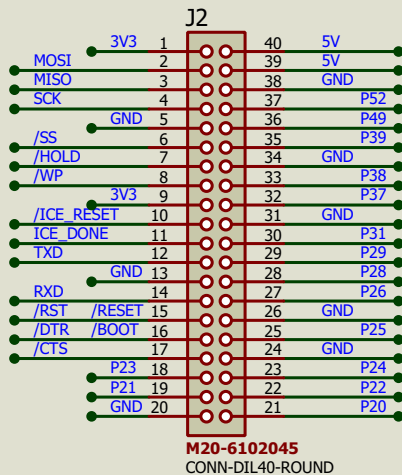
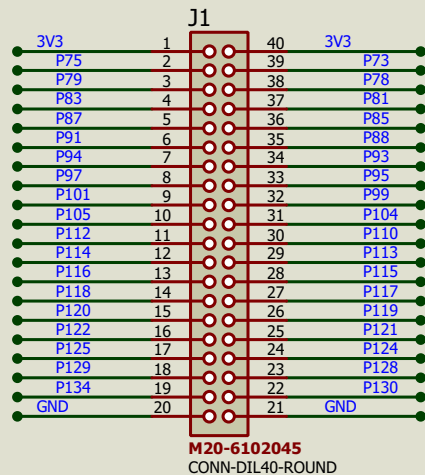
**UVa**

**28/10/2025**

10:10:41

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**Taller Proyectos 1. Datalogger**

**PCB-LoRa-Antenna-25-26**  
**PCB3-Wireless**

G4: Andrés, Iván, Lucía, Víctor R, Alonso

REV: 1

**UVa**

28/10/2025

10:10:41

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