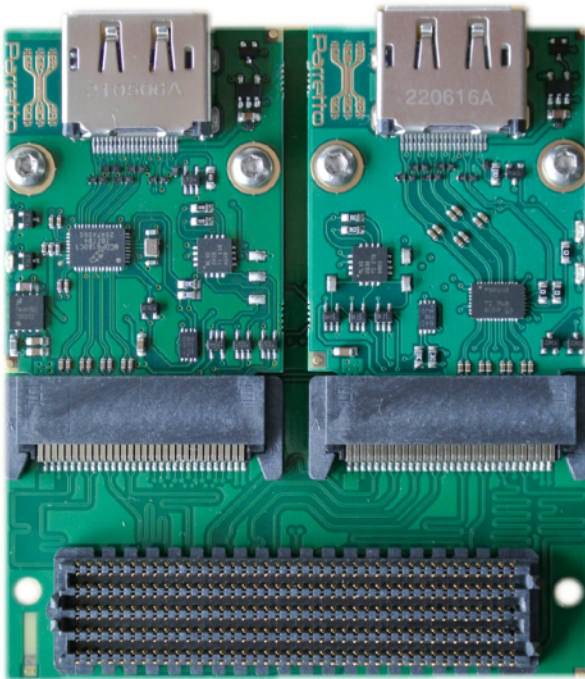




Tentiva

Introducing Tentiva - a high-quality Video FMC board designed for advanced video processing applications.

Tentiva FMC Base board



Tentiva is a highly modular Video FMC board that allows for easy customization and expansion. It features two modular PHY slots, which can be used to connect a wide range of PHY cards. The PHY card holds a connector and line driver or redriver.

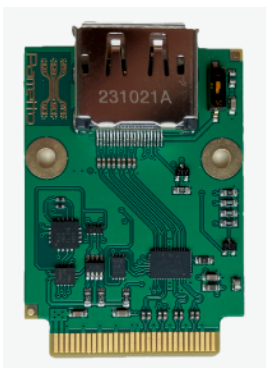
These PHY slots provide a high-speed interface for communication between the Tentiva board and the PHY cards, with support for up to 20 Gbps data rates.

The modular design of Tentiva means that you can easily add or remove PHY cards to suit your specific requirements. This makes it a highly versatile solution that can be tailored to meet the needs of a wide range of applications.

The following PHY cards are available;

- DP21TX - DisplayPort 2.1 TX
- DP21RX - DisplayPort 2.1 RX

Tentiva DP21TX



Tentiva DP21RX

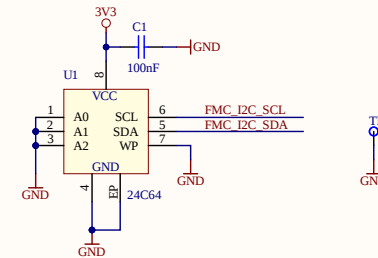
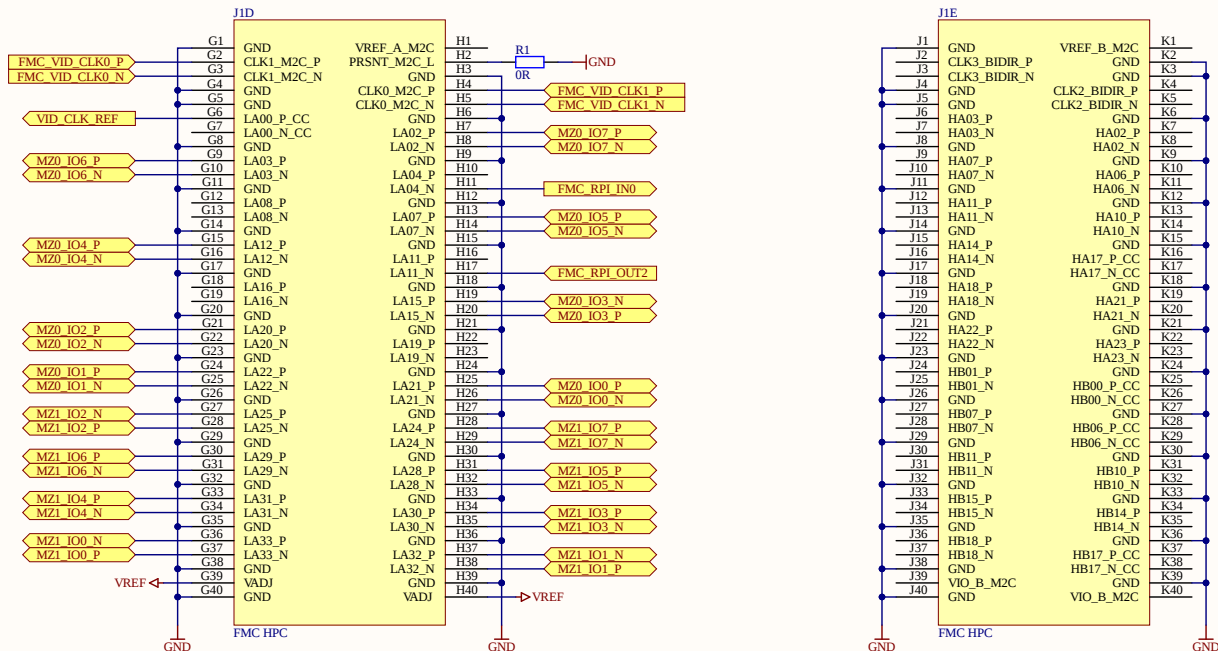
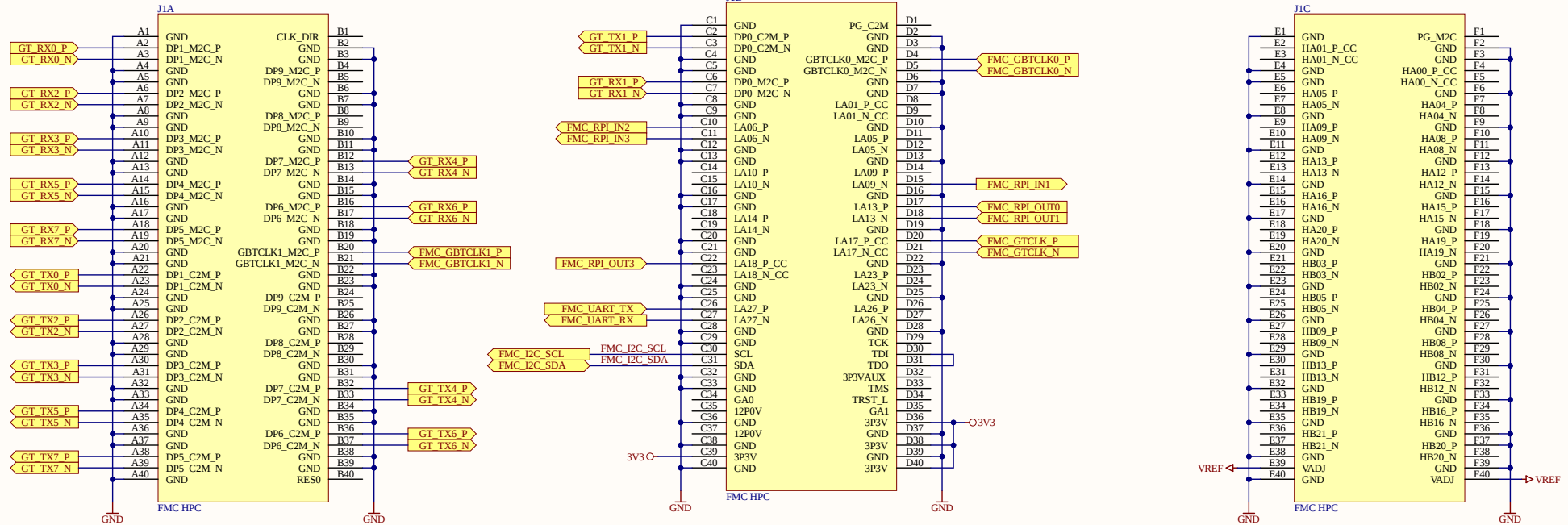


The DPTX card is used to transmit video to a DisplayPort-compatible display device, like a monitor.

Video from a DisplayPort-compatible source device, like a GPU, is received by the DPRX card.

Tentiva is designed to be compatible with FPGA development boards that have a FMC header. This allows for easy integration with a wide range of FPGA development boards from different manufacturers.

Tentiva FMC base board Schematics Rev. D



A

B

C

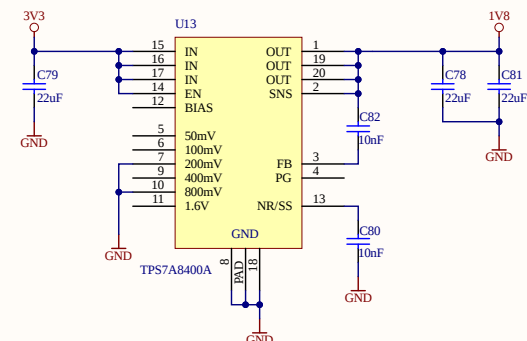
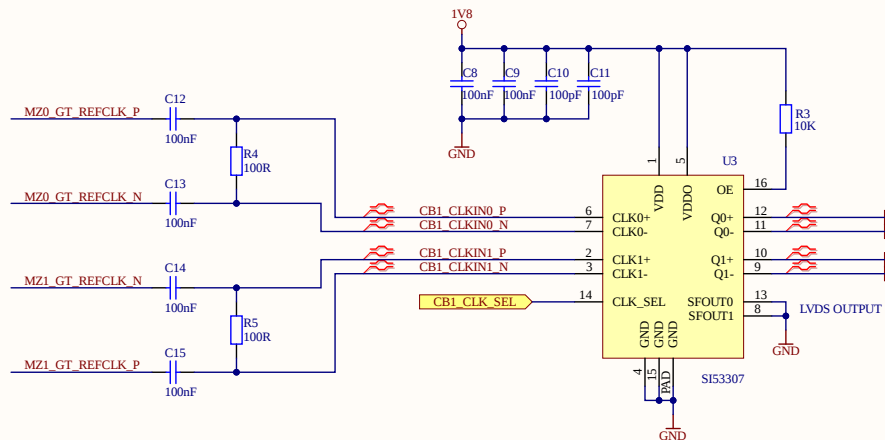
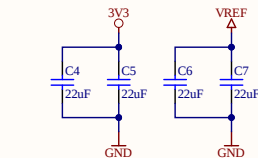
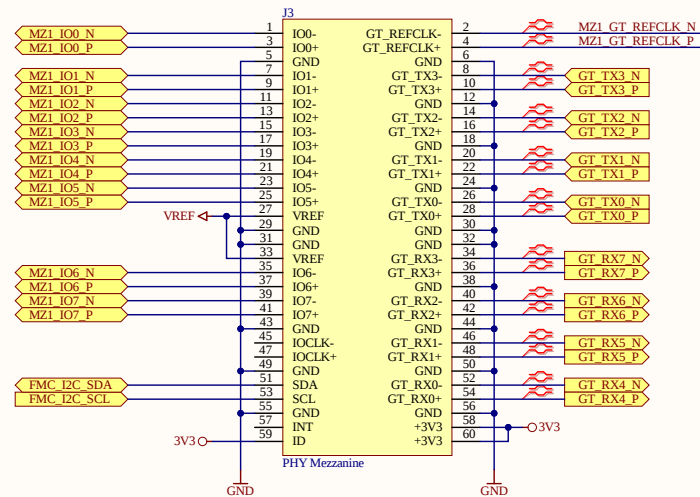
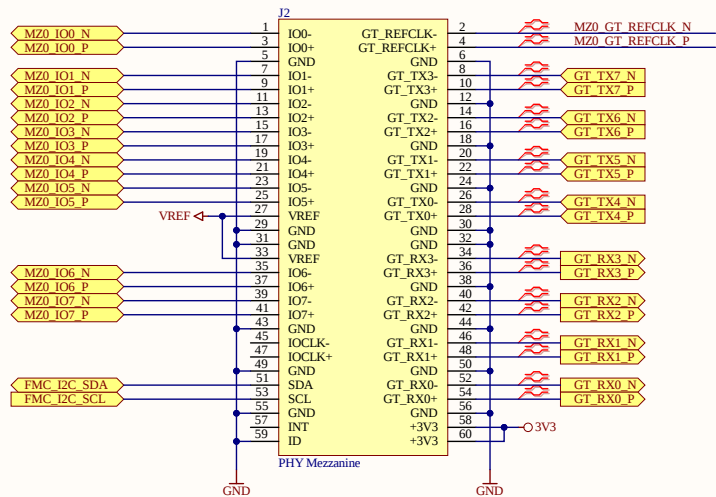
D

A

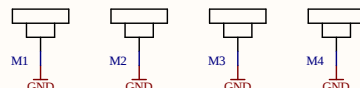
B

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V1 FIDUCIAL
V2 FIDUCIAL
V3 FIDUCIAL
V4 FIDUCIAL



A

B

C

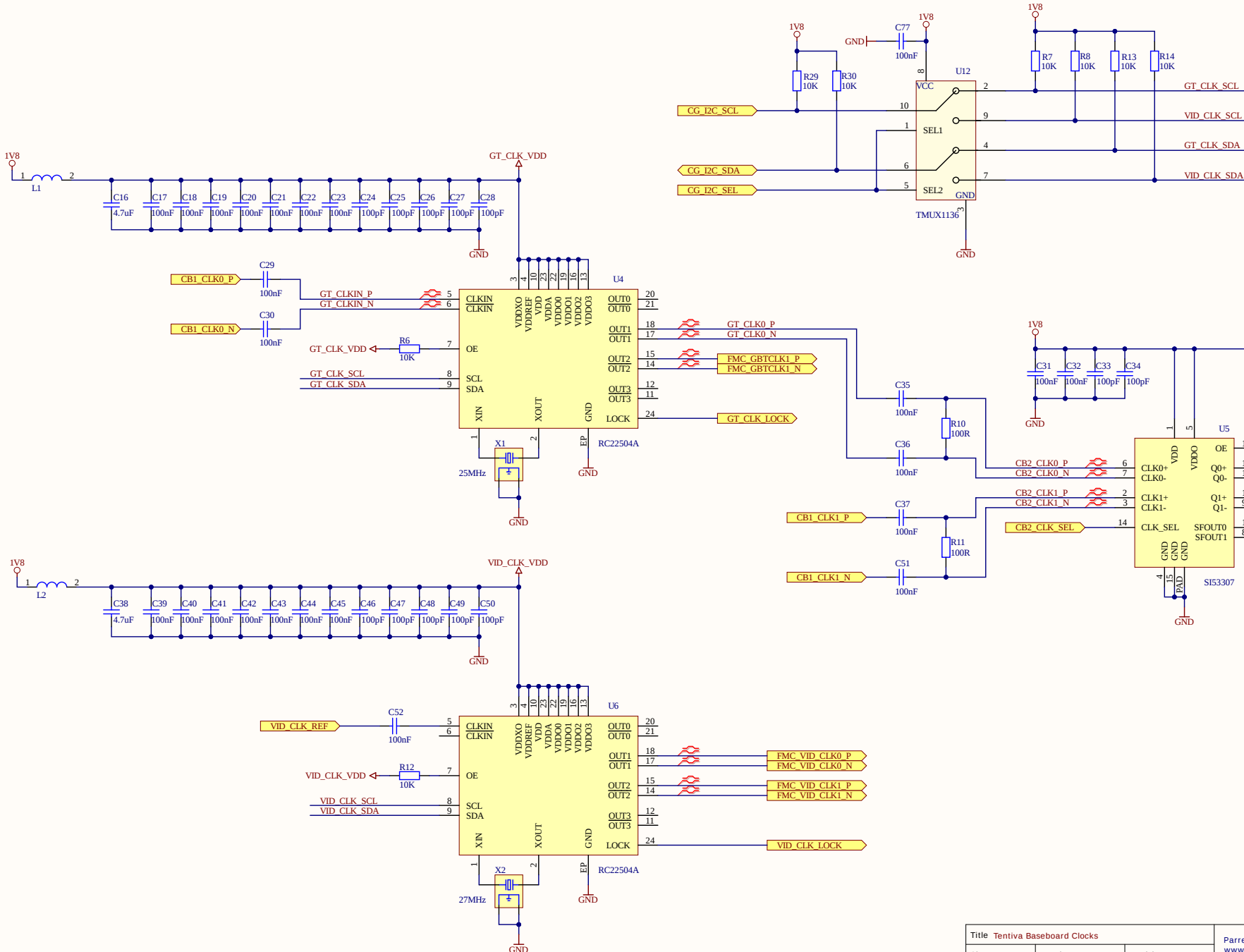
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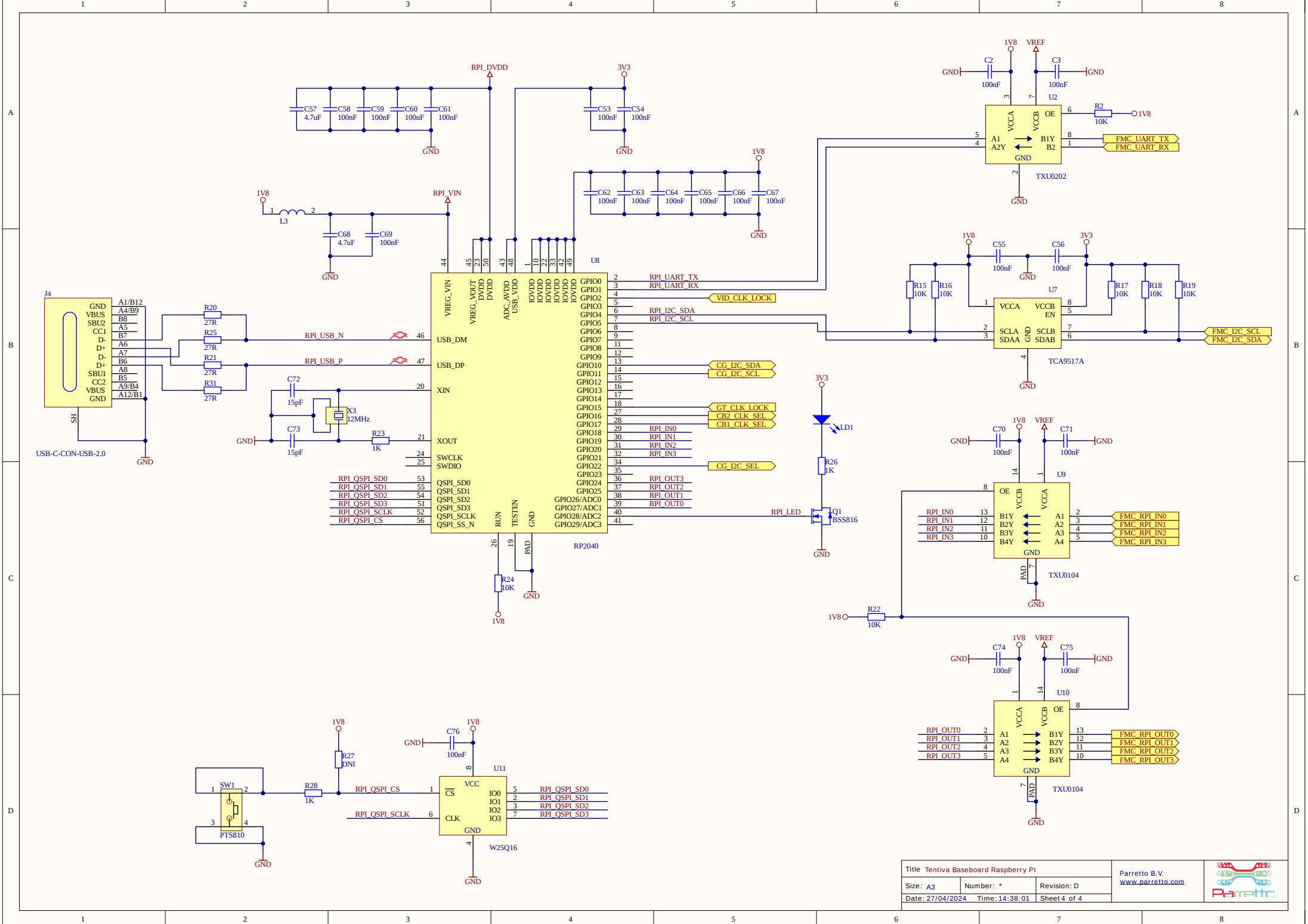
A

B

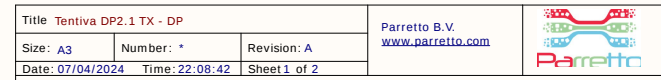
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Tentiva DP21TX Schematics Rev. A



Tentiva DP21RX Schematics Rev. B

A

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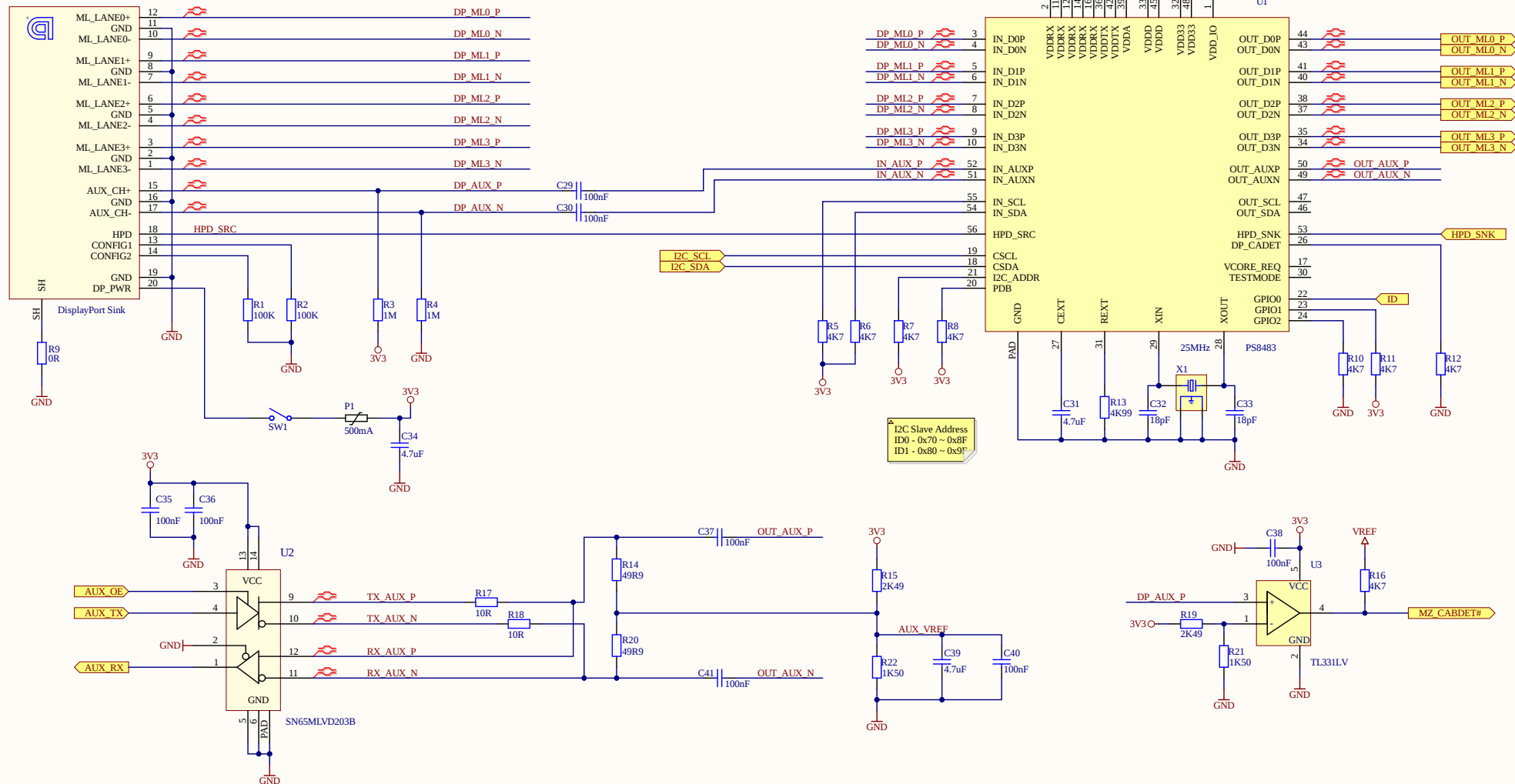
A

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J1



A

B

C

D

A

B

C

D

