S32R274/S32R372RRSEVB
RaceRunner Ultra (S32R274)
& RaceRunner Skinny (S32R372)
Evaluation Board
Eagle Connector Pinout

High level board placement

Need 1.1cm keepout for jumpers and larger components around MPR CS1 connector.
MCU Power Connections and Decoupling

**LAYOUT NOTES:**
- Decoupling caps should be placed as close to the DUT as possible. Smaller 0201 caps should be directly on the DUT pins where possible.
- V3.3V SR LDO 2D should have a wide trace length.
- VDD 3.3V SR trace should have a wide [at least 200 mil] trace from 1.25V SR LDO 2D.

**MCU Grounds**

**Supply Decoupling**
UART to Mini USB

RRU Connections

Gb Ethernet PHY

Flexray/FlexPWM Connections to MB

- Keep zero ohm links close to RGMII trace.
- Keep trace length before link matched for all RGMII signals.
- Use short parallel traces with same length for pairs.
- 3x min distance between pairs.
- 3x min distance to other signals including GND.
- Ensure all pairs have matched trace lengths, including via.
- Ensure no tracks run parallel to diff pairs to minimize crosstalk.
DAUGHTER CARD TO MOTHERBOARD CONNECTOR

NOTE - Due to pin multiplexing differences, not all RRU port pins will go to the exact port number pin on the motherboard. Please check individual routings against SCH-27237.