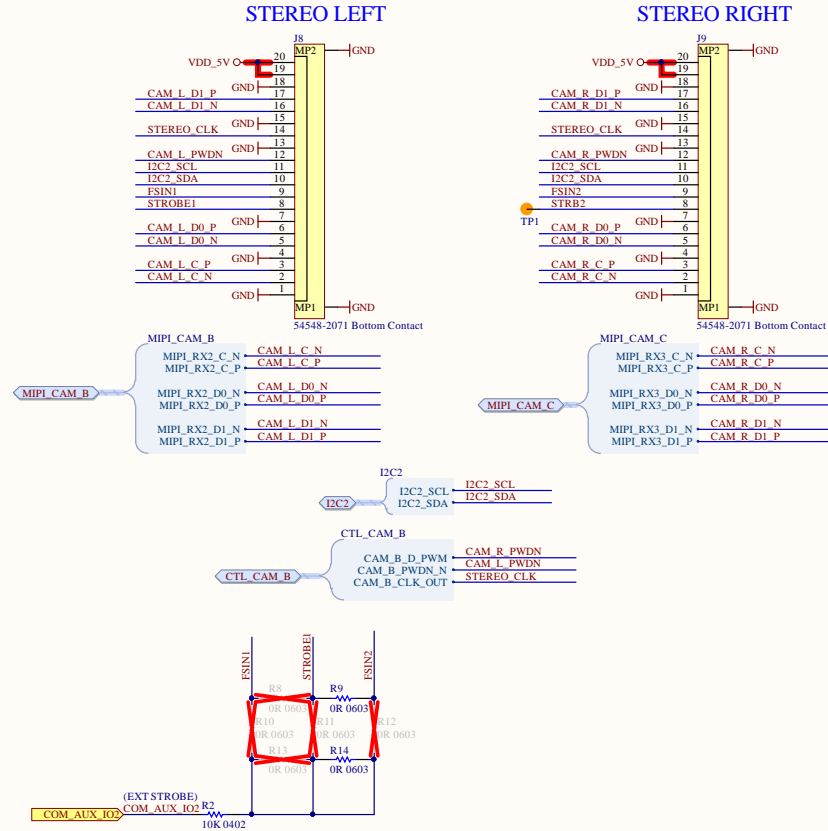


Project: *BW1098FFC*
Current Revision: *R1M1E1*

BW1098FFC Revision History:

Date	Revision	Reason for Change	Changes Implemented
11/29/2019	R0M0E0 -> R1M1E1	1) Updating board to be aligned with Gen2 1099 boards, with SPI and uSD 2) Standardize FFC connector alignment with edge of board when connector is closed. 3) Existing design was not standardized on LuxonisMaster library format	1) Leveraged 1098OBC connector schematic. Updated J1 Hirose connector to be the Gen2 version with proper pin names, Added three 10-pin headers (not populated) to break out AUX io, SPI io, and uSD io, same as on 1098OBC. Updated schematic net names, harnesses and connections to accommodate the Gen2 changes. 2) Moved each of the FFC connectors toward the board edge so that they are flush with edge when closed. 3) Updated schematic and component information to align with LuxonisMaster library system

STEREO CAMERA PAIR



Jumper configuration for FSIN and STROBE pins

PCB NOTE: Add below diagram to the PCB

Supported Modes of Operation



This header is used for configuring the STROBE signal direction between the camera boards by using jumpers. A strobe signal may drive FSIN signal for waking up a sensor from its low power mode. See the "Supported Modes of Operation" note for supported jumper settings.

- "NO SYNC" is the mode in which none of the camera modules is excited by any strobe signal.
- "NORMAL" mode means STROBE mechanism works only among the stereo cameras themselves. In this mode, CAM1 strobe is connected to the CAM2 FSIN input.
- "TIMING MASTER" mode means CAM1 STROBE signal drives the EXT_STROBE signal as well as the CAM2 FSIN input. EXT_STROBE signal circulates among the other camera ports so that one camera module can manage the timing of all cameras within the system.
- "TIMING SLAVE" mode uses external strobe signal which is driven externally by another camera. In this mode, CAM1 and CAM2 are excited by the EXT_STROBE signal.

Note that, at most only one camera can be in the "TIMING MASTER" mode at a time. STROBE generation and FSIN reception should be configured via software.

RGB CAMERA

