Project: DM1097 Current Revision: R0M0E0 BW1097 Revision History: **Date** Revision **Reason for Change Changes Implemented** 1) Updating board to be aligned with Gen2 1099 boards, with SPI and uSD 2) Header jumpers are unnecesary and expensive, and can be repalced with a simpler solution
3) Existing design was not standardized on LuxonisMaster library format
4) Series input power resistor is a sense resistor, but should be 0 ohm
5) The OV9282 LDOs have unnecessary components compared to the most recent bases heads. 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 R1M1E2 -> R2M2E3 11/29/2019 2) Removed header jumpers and exchanged with resistor jumper networks
3) Updated schematic and component information to align with LuxonisMaster library system.
4) Changed input series resistor to 0603 00hm to match 10980BC, 1098FFC, and 1094. observatus
6) Depopped R26 had no set component value.
7) HDMI connector footprint was found to be slightly crooked
8) PGOOD LED driver did not match other boards 5) Removed RC circuit on OV9282 LDOs to match 1098OBC
6) Added 47K as default, but R26 remains depopulated
7) Corrected HDMI footprint to match recommended PCB layout from Wurth 685119134923 (7) Corrected HDM footprint to match recommended PCB layout from with 083119134925

8) Changed transistor on PGOOD LED to be REIC002UNTCL, to match other boards (Q5)

9) Changed from DMG1012TG-7 to DMG1012T-7 (Q1, Q2, Q3, Q4, Q6)

10) Many passive components did not exist in LuxonisMaster, so in some cases, equivalent from a different manufacturer are used. For 332R and 100K resistors, all were standardized to 0402, rather than a mix of sizes DMG1012 FETs were automotive qualified, changed to non-automotive for entry into LuxonisMaster 10) Passive component equivalent part substitions as library was built up DM1097Revision History: R0M0E0 -> R0M0E1 R0M0E1 -> R1M1E2 R1M1E2 -> R2M2E3 Title **DM1097** 1925 Harmony Park Drive Cannot open file
C:\Users\BrianLuxonis\ Westminster, CO 80234 Size: Tabloid Number: D0000200 Revision: R0M0E0 Date: 26/02/2021 Time: 07:26:23 Sheet 1 of 17

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