





ATI Technologies Inc.

1 Commerce Valley Drive East
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Celauda, 1377726
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Recommended caps: (see BOM for qualified values/vendors) 10uF , X6S, 0805, 6.3V, 1.4MM MAX THICK 1uF, X6S, 0402, 6.3V 100nF, X7R, 0402 10nF, X7R, 0402 Place close to ASIC Place close to ASIC PART 2 OF 7 (15) T2XCN(-(15) T2XCR(-TXCAM TXCAP R110 _____182R R100 _____100F AN22 AN23 TX0M TX0P R101 _____ 1001 AR23 AP23 AR24 AR12 T2X2M T2X2P AP24 AP12 R103 100R DNI R107 AR25 TX3M TX3P 182R R104 100R +1.8V T2X4M T2X4R T2X4M T2X4P TX4M TX4P R105 _____ 100 Q100 SI2304DS +12V_BUS TX5M AR17 TX5P AP17 T1X5M AR27 Γ2X5M Γ2X5P TPVDD AM14 TPVSS AL14 +T2PVDD +TPVDD I M E D NS110 NS_VIA C110 + C111 + C112 + C113 10nF 100nF 1uF_6.3V 10uF_X6S C100 = C102 = 10uF_X6S | 1uF_6.3V C101 = AK27 AL27 T2XVDDC_1 T2XVDDC_2 TXVDDR_2 TXVDDR_3 TXVDDR_4 TXVDDR_5 GND_T2PVSS GND_TPVSS +LTVDD18 TXVDDR_4 TXVDDR_5 +TXVDDR B100 AJ26 AH26 C115 100nF C116 = C117 1uF_6.3V 10uF_X6S BLM15BD121SN1 AN11 AN12 AN13 AN14 AN15 AN16 AN17 AN18 TXVSSR_1 TXVSSR_3 TXVSSR_4 TXVSSR_6 TXVSSR_6 TXVSSR_6 TXVSSR_6 C103 -C108 C109 = 100nF C114 10nF 10uF_X6S +<u>3.3</u>V 1uF_6.3V T2XVSSR_1 T2XVSSR_2 T2XVSSR_3 AN21 AN24 AN25 R109 | OR MR109 0R 2XVSSR_4 2XVSSR_5 TXVSSR_8 AR18 AP21 AP26 TXVSSR 1 T2XVSSR_6 T2XVSSR_7 T2XVSSR_8 T2XVSSR_9 T2XVSSR_10 T2XVSSR_11 T2XVSSR_11 T2XVSSR_12 T2XVSSR_13 T2XVSSR_14 +LTVDD33 痡 AR31 AP31 AR21 AR26 R1033 75R GND AJ24 AM22 AM24 AM26 AM27 () () () () () () BI M15BD121SN1 DAC / CRT C106 = C105 = R1035 OR R1034 75R SI2304DS R1036 75R GNI R108 TR14 OR HSYNC1_TRST (1) R1039 75R C (1) DDC1DATA_TDI (TR13 DNT OR R1038 OR R1037 75R HSYNC_DAC1 (7,15)
VSYNC_DAC1 (7,15) HSYNC VSYNC +3.3V 0R (15) CRT1DDCDATA (15) CRT1DDCCLK +AVDD TR10 OR >> VSYNC1_TCK (1) 12C DEVICE ADDRESS' ON DDC3 RSET R1030 499R GND_AVSSQ R40 R41 4.7K 4.7K 402 402 DDC2DATA BUO TR40 TR41 4.7K 4.7K 402 4.7K AVDD C1020 + C1021 + C1022 10nF + 100nF + C1022 1uF_6.3V NS1020 NS_VIA 2 0 1 || 1 ΔP32 DDC3DATA AVSSQ DDC3DATA Monitor DDC3CLK Interface +VDD1DI DDC4DATA DDC4CLK AR28 VDD1D NS1021 NS_VIA VSS1DI (16) HPD1 >> IPD1 (1) DDC3CLK_TDO < TR11 DNI_OR GND_VSS1DI (1) DDC1CLK_TMS (TR12 OR R2032 OR R2031 75R R2033 75R GN (7) SDA (7) SCL MMI2C DAC2 (TV/CRT2) G2 R2036 75R G2B R2035 OR R2034 (18) GPU_DMINUS (18) GPU_DPLUS (18) TS_FDO R2038 OR R2037 75R AM4 AG21 → HSYNC_DAC2 (7,16) VSYNC_DAC2 (7,16) HOSYNC TP42 PLL TEST PLLTEST TESTEN COMP (1) TEST_EN_R (R2SET R2030 715R GND_A2VSSQ AJ21 R2SE1 +A2VDDQ A2VDDQ Share one PAD R43 221R VREFG C2022 DNI 1uF_6.3V C2021 100nF A2VSSQ R44 110R C46 100nF ΔH22 VDD2DI ±\/DD3DI GND_A2VSSQ AG22 AR33 AP33 VSS2DI XTALOUT_S is done for ease of layout (17) RTCLK > MR81 182R A2VDD AM21 +3.3V_BUS +A2VDD DNI GND VSS2DI B2030 26R_600mA +3.3V B80 BLM15BD121SN1 NR81 182R Y81 XTALOUT S 4 VCC OUT 182R C2030 + C2031 + C2032 + C2033 10nF 100nF 1uF_6.3V + C2033 R81 R82 MR82 221R 221R C80 100nF 27.000MHz Share one pad OSC_EN (14,17) R85 0R ->> RTXTALIN (17) C82 22pF $\frac{1}{\Box}$ ATI Technologies Inc. R84 1M R_RTCLK 1 Commerce Valley Drive East Markham, Ontario Canada, L3T 7X6 (905) 882-2600 MR86 OR XTALOUT ->> RTXTALOUT (17) C83 Y82 22pF 27.000MHz_10PPN Title RH RV630 - ASIC MAIN 105-B101XX-00D















































