

RK3399 SOC-package pin delay V0.2

UNIT: microns

Net Name	Total Conductor (mm)	Pin Delay (ns)
ADC AVDD	5.752257	
ADC IN0	6.286489	
ADC IN1	5.98497	
ADC IN2	5.93059	
ADC IN3	6.105263	
ADC IN4	6.401595	
ADC IN5	21.725369	
API01 VDD	2.698533	
API01 VDDPST	1.818066	
API02 VDD	0.893739	
API02 VDDPST	1.074003	
API03 VDD 1V8	3.325616	
API04 VDD	2.307542	
API04 VDDPST	2.543447	
API05 VDD	1.734646	
API05 VDDPST	2.783567	
DDRO A0	5.603861	0.0340
DDRO A1	6.418181	0.0389
DDRO A2	6.224965	0.0377
DDRO A3	5.830173	0.0353
DDRO A4	5.519109	0.0334
DDRO A5	6.424114	0.0389
DDRO A6	6.495158	0.0394
DDRO A7	6.007873	0.0364
DDRO A8	6.295635	0.0382
DDRO A9	6.874143	0.0417
DDRO A10	6.922544	0.0420
DDRO A11	5.279305	0.0320
DDRO A12	7.286472	0.0442
DDRO A13	6.03924	0.0366
DDRO A14	5.847313	0.0354
DDRO A15	1.957016	0.0119
DDRO ATB0	2.624064	0.0159
DDRO ATB1	2.282518	0.0138
DDRO BA0	6.194545	0.0375
DDRO BA1	7.141043	0.0433
DDRO BA2	3.730117	0.0226
DDRO CASN	4.32547	0.0262
DDRO CKE0	7.71112	0.0467
DDRO CKE1	7.166195	0.0434
DDRO CLKON	5.087951	0.0308
DDRO CLKOP	4.739703	0.0287
DDRO CLK1N	4.403711	0.0267
DDRO CLK1P	4.152822	0.0252
DDRO CLK VDD	5.694948	

DDRO CSN0	2.067108	0.0125
DDRO CSN1	7.834573	0.0475
DDRO CSN2	2.828865	0.0171
DDRO CSN3	7.022104	0.0426
DDRO DM0	4.297448	0.0260
DDRO DM1	5.909473	0.0358
DDRO DM2	3.488449	0.0211
DDRO DM3	2.493356	0.0151
DDRO DQ0	6.290596	0.0381
DDRO DQ1	7.038854	0.0427
DDRO DQ2	5.90237	0.0358
DDRO DQ3	6.592393	0.0400
DDRO DQ4	5.729445	0.0347
DDRO DQ5	6.337239	0.0384
DDRO DQ6	6.171957	0.0374
DDRO DQ7	5.367093	0.0325
DDRO DQ8	7.790135	0.0472
DDRO DQ9	7.323736	0.0444
DDRO DQ10	8.584559	0.0520
DDRO DQ11	7.00336	0.0424
DDRO DQ12	7.909349	0.0479
DDRO DQ13	7.718535	0.0468
DDRO DQ14	7.339281	0.0445
DDRO DQ15	6.663953	0.0404
DDRO DQ16	5.983211	0.0363
DDRO DQ17	4.994047	0.0303
DDRO DQ18	5.774923	0.0350
DDRO DQ19	4.973976	0.0301
DDRO DQ20	5.573496	0.0338
DDRO DQ21	5.239898	0.0318
DDRO DQ22	4.768461	0.0289
DDRO DQ23	5.625233	0.0341
DDRO DQ24	5.518522	0.0334
DDRO DQ25	4.810454	0.0292
DDRO DQ26	5.526232	0.0335
DDRO DQ27	5.90957	0.0358
DDRO DQ28	4.684257	0.0284
DDRO DQ29	5.848637	0.0354
DDRO DQ30	4.893179	0.0297
DDRO DQ31	5.247423	0.0318
DDRO DQSON	5.440568	0.0330
DDRO DQSOP	5.354348	0.0325
DDRO DQS1N	7.09753	0.0430
DDRO DQS1P	6.696368	0.0406
DDRO DQS2N	4.586453	0.0278
DDRO DQS2P	4.100151	0.0248
DDRO DQS3N	4.22756	0.0256
DDRO DQS3P	4.248048	0.0257
DDRO ODT0	5.058997	0.0307
DDRO ODT1	3.423023	0.0207

DDR0 PLL TESTOUT N	1.904039	0.0115
DDR0 PLL TESTOUT P	2.212882	0.0134
DDR0 PZQ	1.749495	
DDR0 RASN	6.79971	0.0412
DDR0 RESETN	1.790287	0.0109
DDR0 WEN	3.400848	0.0206
DDR1PLL AVDD OV9	2.001833	
DDR1 A0	6.08298	0.0369
DDR1 A1	6.49839	0.0394
DDR1 A2	5.869635	0.0356
DDR1 A3	6.308605	0.0382
DDR1 A4	5.782713	0.0350
DDR1 A5	6.286818	0.0381
DDR1 A6	5.882306	0.0357
DDR1 A7	6.468464	0.0392
DDR1 A8	5.956476	0.0361
DDR1 A9	6.671944	0.0404
DDR1 A10	7.725956	0.0468
DDR1 A11	5.56678	0.0337
DDR1 A12	7.814248	0.0474
DDR1 A13	6.570619	0.0398
DDR1 A14	5.851164	0.0355
DDR1 A15	1.825514	0.0111
DDR1 ATB0	2.963953	0.0180
DDR1 ATB1	4.349472	0.0264
DDR1 BA0	7.28656	0.0442
DDR1 BA1	6.097101	0.0370
DDR1 BA2	3.901445	0.0236
DDR1 CASN	3.140036	0.0190
DDR1 CKE0	9.168813	0.0556
DDR1 CKE1	6.673753	0.0404
DDR1 CLKON	5.205326	0.0315
DDR1 CLKOP	4.928749	0.0299
DDR1 CLK1N	4.885661	0.0296
DDR1 CLK1P	4.605549	0.0279
DDR1 CLK VDD	5.653757	
DDR1 CSN0	2.607529	0.0158
DDR1 CSN1	7.524832	0.0456
DDR1 CSN2	2.407225	0.0146
DDR1 CSN3	6.778306	0.0411
DDR1 DMO	4.122436	0.0250
DDR1 DM1	3.368404	0.0204
DDR1 DM2	4.771097	0.0289
DDR1 DM3	5.749666	0.0348
DDR1 DQ0	5.410033	0.0328
DDR1 DQ1	6.074784	0.0368
DDR1 DQ2	5.831417	0.0353
DDR1 DQ3	6.363436	0.0386
DDR1 DQ4	5.652698	0.0343
DDR1 DQ5	6.427425	0.0390

DDR1 DQ6	6.52778	0.0396
DDR1 DQ7	5.991769	0.0363
DDR1 DQ8	5.677591	0.0344
DDR1 DQ9	5.368169	0.0325
DDR1 DQ10	6.314411	0.0383
DDR1 DQ11	5.179127	0.0314
DDR1 DQ12	6.422982	0.0389
DDR1 DQ13	6.238333	0.0378
DDR1 DQ14	6.136441	0.0372
DDR1 DQ15	5.417781	0.0328
DDR1 DQ16	6.735928	0.0408
DDR1 DQ17	6.087297	0.0369
DDR1 DQ18	7.001664	0.0424
DDR1 DQ19	6.317033	0.0383
DDR1 DQ20	7.211276	0.0437
DDR1 DQ21	6.640313	0.0402
DDR1 DQ22	6.717698	0.0407
DDR1 DQ23	7.237613	0.0439
DDR1 DQ24	7.747234	0.0470
DDR1 DQ25	6.724608	0.0408
DDR1 DQ26	7.929964	0.0481
DDR1 DQ27	8.142714	0.0493
DDR1 DQ28	7.311655	0.0443
DDR1 DQ29	8.718604	0.0528
DDR1 DQ30	8.46272	0.0513
DDR1 DQ31	7.68752	0.0466
DDR1 DQSON	4.170672	0.0253
DDR1 DQSOP	4.635308	0.0281
DDR1 DQS1N	3.903633	0.0237
DDR1 DQS1P	4.139393	0.0251
DDR1 DQS2N	5.90855	0.0358
DDR1 DQS2P	5.916406	0.0359
DDR1 DQS3N	6.786558	0.0411
DDR1 DQS3P	6.844895	0.0415
DDR1 ODT0	5.156159	0.0312
DDR1 ODT1	4.8256	0.0292
DDR1 PLL TESTOUT N	3.169595	0.0192
DDR1 PLL TESTOUT P	3.224448	0.0195
DDR1 PZQ	2.902635	
DDR1 RASN	7.374695	
DDR1 RESETN	2.922969	
DDR1 VDD	29.56942	
DDR1 WEN	2.793923	
DFTJTAG TMS	9.239154	
DFTJTAG TRSTN	9.927152	
EDP AUXN	10.070045	0.0610
EDP AUXP	9.228376	0.0559
EDP AVDD 0V9	1.386464	
EDP AVDD 1V8	5.393647	
EDP AVSS	57.981956	

EDP CLK24M IN	2.378545	
EDP DC TP	1.961093	
EDP REXT	3.313042	
EDP TX0N	10.50319	0.0637
EDP TX0P	9.6633	0.0586
EDP TX1N	10.932171	0.0663
EDP TX1P	10.093215	0.0612
EDP TX2N	10.117995	0.0613
EDP TX2P	9.278035	0.0562
EDP TX3N	10.050052	0.0609
EDP TX3P	9.210687	0.0558
EFUSE	6.81382	
EMMC CALIO	4.253426	
EMMC CLK	3.94554	0.0239
EMMC CMD	5.795215	0.0351
EMMC COREDLL OV9	2.319474	
EMMC D0	3.681204	0.0223
EMMC D1	4.265504	0.0259
EMMC D2	4.678616	0.0284
EMMC D3	1.7491	0.0106
EMMC D4	2.262746	0.0137
EMMC D5	2.761251	0.0167
EMMC D6	5.979335	0.0362
EMMC D7	4.753032	0.0288
EMMC STRB	5.628089	0.0341
EMMC TP	4.945312	
EMMC VDD 1V8	1.835837	
GPIO0 A0/TEST_CLKOUT0/CLK32K IN	6.119776	
GPIO0 A1/DDRIO_PWROFF/TCPD_CCDB EN	4.869367	
GPIO0 A2/WIFI_26MHZ	2.410135	
GPIO0 A3/SDIO0_WRPT	6.453296	
GPIO0 A4/SDIO0_INTN	8.947538	
GPIO0 A5/EMMC_PWRON	6.648187	
GPIO0 A6/PWM3A_IR	1.875226	
GPIO0 A7/SDMMC0_DET	6.304215	
GPIO0 B0/SDMMC0_WRPRT/TEST_CLKOUT2	5.021262	
GPIO0 B1/PMUI02_VOLSEL	5.975527	
GPIO0 B2	6.768668	
GPIO0 B3	5.36739	
GPIO0 B4/TCPD_VBUS_BDIS	6.108336	
GPIO0_B5/TCPD_VBUS_FDIS/TCPD_VBUS_SOURCE3	1.886039	
GPIO1_A0/ISP0_SHUTTER_EN/ISP1_SHUTTER_EN/TCPD_VBUS_SINK EN	3.746983	
GPIO1_A1/ISP0_SHUTTER_TRIG/ISP1_SHUTTER_TRIG/TCPD_CC0_VCONN EN	6.18505	
GPIO1_A2/ISP0_FLASHTRIGIN/ISP1_FLASHTRIGIN/TCPD_CC1_VCONN EN	3.820585	
GPIO1_A3/ISP0_FLASHTRIGOUT/ISP1_FLASHTRIGOUT	3.909247	

GPI01_A4/ISPO_PRELIGHT_TRIG/ISPI1_PRELIG HT TRIG	3.883435	
GPI01_A5/AP PWROFF	5.51352	
GPI01_A6/TSADC INT	3.493854	
GPI01_A7/SPI1_RXD/UART4_RX	3.507275	
GPI01_B0/SPI1_TXD/UART4_TX	5.912621	
GPI01_B1/SPI1_CLK/PMCU_JTAG_TCK	3.971598	
GPI01_B2/SPI1_CSNO/PMCU_JTAG_TMS	4.827559	
GPI01_B3/I2C4_SDA	6.039981	
GPI01_B4/I2C4_SCL	5.513268	
GPI01_B5	1.842675	
GPI01_B6/PWM3B_IR	1.884559	
GPI01_B7/SPI3_RXD/I2C0_SDA	2.051537	
GPI01_C0/SPI3_TXD/I2C0_SCL	5.387991	
GPI01_C1/SPI3_CLK	2.882255	
GPI01_C2/SPI3_CSNO	5.91254	
GPI01_C3/PWM2	3.571973	
GPI01_C4/I2C8_SDA	4.393631	
GPI01_C5/I2C8_SCL	5.232915	
GPI01_C6/TCPD_VBUS_SOURCE0	1.759233	
GPI01_C7/TCPD_VBUS_SOURCE1	5.889574	
GPI01_D0/TCPD_VBUS_SOURCE2	2.170634	
GPI02_A0/VOP_D0/CIF_D0/I2C2_SDA	6.761384	
GPI02_A1/VOP_D1/CIF_D1/I2C2_SCL	1.760709	
GPI02_A2/VOP_D2/CIF_D2	5.569141	
GPI02_A3/VOP_D3/CIF_D3	5.024463	
GPI02_A4/VOP_D4/CIF_D4	4.937941	
GPI02_A5/VOP_D5/CIF_D5	5.474496	
GPI02_A6/VOP_D6/CIF_D6	3.769606	
GPI02_A7/VOP_D7/CIF_D7/I2C7_SDA	5.74439	
GPI02_B0/VOP_CLK/CIF_VSYNC/I2C7_SCL	4.034267	
GPI02_B1/SPI2_RXD/CIF_HREF/I2C6_SDA	6.457876	
GPI02_B2/SPI2_TXD/CIF_CLKIN/I2C6_SCL	1.377927	
GPI02_B3/SPI2_CLK/VOP_DEN/CIF_CLKOUTA	6.469365	
GPI02_B4/SPI2_CSNO	6.934864	
GPI02_C0/UART0_RX	3.40405	
GPI02_C1/UART0_TX	5.604485	
GPI02_C2/UART0_CTSN	5.11896	
GPI02_C3/UART0_RTSN	8.437123	
GPI02_C4/SDI00_D0/SPI5_RXD	2.81661	0.0171
GPI02_C5/SDI00_D1/SPI5_TXD	7.899467	0.0479
GPI02_C6/SDI00_D2/SPI5_CLK	5.232718	0.0317
GPI02_C7/SDI00_D3/SPI5_CSNO	3.130229	0.0190
GPI02_D0/SDI00_CMD	6.530517	0.0396
GPI02_D1/SDI00_CLKOUT/TEST_CLKOUT1	5.232168	0.0317
GPI02_D2/SDI00_DET/PCIE_CLKREQN	8.586558	
GPI02_D3/SDI00_PWREN	3.058911	
GPI02_D4/SDI00_BKPWR	4.61752	
GPI03_A0/MAC_TXD2/SPI4_RXD	3.427888	0.0208
GPI03_A1/MAC_TXD3/SPI4_TXD	2.158583	0.0131

GPI03 A2/MAC RXD2/SPI4 CLK	6.863675	0.0416
GPI03 A3/MAC RXD3/SPI4 CSN0	4.470791	0.0271
GPI03 A4/MAC TXD0/SPI0 RXD	5.35426	0.0325
GPI03 A5/MAC TXD1/SPI0 TXD	2.735736	0.0166
GPI03 A6/MAC RXD0/SPI0 CLK	4.972837	0.0301
GPI03 A7/MAC RXD1/SPI0 CSN0	4.645182	0.0282
GPI03 B0/MAC MDC/SPI0 CSN1	6.025631	0.0365
GPI03 B1/MAC RXDV	6.7385	0.0408
GPI03 B2/MAC RXER/I2C5 SDA	3.122748	0.0189
GPI03 B3/MAC CLK/I2C5 SCL	2.958597	0.0179
GPI03 B4/MAC TXEN/UART1 RX	1.816673	0.0110
GPI03 B5/MAC MDIO/UART1 TX	3.758186	0.0228
GPI03 B6/MAC RXCLK/UART3 RX	4.021794	0.0244
GPI03 B7/MAC CRS/UART3 TX/CIF CLKOUTB	7.145158	0.0433
GPI03 C0/MAC COL/UART3 CTSN/SPDIF TX	6.135013	0.0372
GPI03 C1/MAC TXCLK/UART3 RTSN	5.17821	0.0314
GPI03 D0/I2S0 SCLK	6.98159	
GPI03 D1/I2S0 LRCK RX	5.862649	
GPI03 D2/I2S0 LRCK TX	8.72359	
GPI03 D3/I2S0 SDIO	1.734044	
GPI03 D4/I2S0 SDI1SD03	4.749199	
GPI03 D5/I2S0 SDI2SD02	2.715118	
GPI03 D6/I2S0 SDI3SD01	8.074983	
GPI03 D7/I2S0 SD00	8.475158	
GPI04 A0/I2S CLK	3.075038	
GPI04 A1/I2C1 SDA	8.389965	
GPI04 A2/I2C1 SCL	2.332654	
GPI04 A3/I2S1 SCLK	6.844633	
GPI04 A4/I2S1 LRCK RX	2.990892	
GPI04 A5/I2S1 LRCK TX	8.956991	
GPI04 A6/I2S1 SDIO	3.945598	
GPI04 A7/I2S1 SD00	4.244174	
GPI04 B0/SDMMC0 D0/UART2A RX	4.892799	0.0297
GPI04 B1/SDMMC0 D1/UART2A TX	5.065267	0.0307
GPI04 B2/SDMMC0 D2/APJTAG TCK	5.200485	0.0315
GPI04 B3/SDMMC0 D3/APJTAG TMS	2.954276	0.0179
GPI04 B4/SDMMC0 CLKOUT/MUCJTAG TCK	4.611095	0.0279
GPI04 B5/SDMMC0 CMD/MCUJTAG TMS	3.868165	0.0234
GPI04 C0/I2C3 SDA/UART2B RX	5.685722	
GPI04 C1/I2C3 SCL/UART2B TX	9.011702	
GPI04 C2/PWM0/VOPO PWM/VOP1 PWM	5.265449	
GPI04 C3/UART2C RX	8.638025	
GPI04 C4/UART2C TX	7.131646	
GPI04 C5/SPDIF TX	9.354033	
GPI04 C6/PWM1	8.579421	
GPI04 C7/HDMI CECINOUT/EDP HOTPLUG	3.083334	
GPI04 D0/PCIE CLKREQNB	4.17109	
GPI04 D1/DP HOTPLUG	7.884813	
GPI04 D2	7.326458	
GPI04 D3	7.87124	

GPIO4 D4	6.538414	
GPIO4 D5	7.882967	
GPIO4 D6	6.196549	
HDMI AVDD 0V9	3.302652	
HDMI AVDD 1V8	6.602082	
HDMI HPD	2.980382	
HDMI REXT	3.6325	
HDMI TCN	8.12824	0.0493
HDMI TCP	7.313753	0.0443
HDMI TX0N	7.935135	0.0481
HDMI TX0P	7.080041	0.0429
HDMI TX1N	7.966378	0.0483
HDMI TX1P	7.133282	0.0432
HDMI TX2N	8.259621	0.0501
HDMI TX2P	7.415846	0.0449
MIPI RX0 AVDD 1V8	4.431611	
MIPI RX0 CLKN	7.6015	0.0461
MIPI RX0 CLKP	7.809942	0.0473
MIPI RX0 DON	7.238254	0.0439
MIPI RX0 DOP	7.421545	0.0450
MIPI RX0 D1N	7.660275	0.0464
MIPI RX0 D1P	7.41142	0.0449
MIPI RX0 D2N	8.190824	0.0496
MIPI RX0 D2P	8.000433	0.0485
MIPI RX0 D3N	8.323406	0.0504
MIPI RX0 D3P	8.343914	0.0506
MIPI RX0 REXT	4.188493	
MIPI TX0 AVDD 1V8	5.241371	
MIPI TX0 CLKN	5.3508	0.0324
MIPI TX0 CLKP	5.43586	0.0329
MIPI TX0 DON	7.314082	0.0443
MIPI TX0 DOP	7.212816	0.0437
MIPI TX0 D1N	5.884483	0.0357
MIPI TX0 D1P	5.514108	0.0334
MIPI TX0 D2N	5.534446	0.0335
MIPI TX0 D2P	5.255978	0.0319
MIPI TX0 D3N	6.58297	0.0399
MIPI TX0 D3P	6.588048	0.0399
MIPI TX0 REXT	4.342016	
MIPI TX1/RX1 AVDD 1V8	7.61681	
MIPI TX1/RX1 CLKN	7.809285	0.0473
MIPI TX1/RX1 CLKP	7.876	0.0477
MIPI TX1/RX1 DON	8.177513	0.0496
MIPI TX1/RX1 DOP	8.241954	0.0500
MIPI TX1/RX1 D1N	7.929331	0.0481
MIPI TX1/RX1 D1P	7.733338	0.0469
MIPI TX1/RX1 D2N	7.774624	0.0471
MIPI TX1/RX1 D2P	7.527548	0.0456
MIPI TX1/RX1 D3N	7.534096	0.0457
MIPI TX1/RX1 D3P	7.570087	0.0459

MIPI TX1/RX1 REXT	4.404324	
NPOR	5.689145	
PCIE AVDD 0V9	6.826384	
PCIE AVDD 1V8	4.424654	
PCIE RCLK 100M N	6.971158	
PCIE RCLK 100M P	7.851726	
PCIE RX0 N	9.023201	0.0547
PCIE RX0 P	8.193919	0.0497
PCIE RX1 N	9.5669	0.0580
PCIE RX1 P	8.724496	0.0529
PCIE RX2 N	5.053416	0.0306
PCIE RX2 P	4.20583	0.0255
PCIE RX3 N	6.393474	0.0387
PCIE RX3 P	5.56064	0.0337
PCIE TX0 N	8.294555	0.0503
PCIE TX0 P	7.450864	0.0452
PCIE TX1 N	9.121668	0.0553
PCIE TX1 P	8.274959	0.0502
PCIE TX2 N	4.316308	0.0262
PCIE TX2 P	3.493025	0.0212
PCIE TX3 N	5.284378	0.0320
PCIE TX3 P	4.449601	0.0270
PLL AVSS	18.125363	
PMUIO1 VDD 1V8	1.071299	
PMUIO2 VDD	3.246727	
PMUIO2 VDDPST	3.036705	
SDMMC0 VDD	2.398616	
SDMMC0 VDDPST	2.749592	
TYPECO AUXM	9.180813	0.0556
TYPECO AUXM PU PD	6.393482	
TYPECO AUXP	8.333438	0.0505
TYPECO AUXP PD PU	6.576395	
TYPECO AVDD 0V9	7.046726	
TYPECO AVDD 1V8	3.887175	
TYPECO AVDD 3V3	4.082488	
TYPECO CC1	6.851905	
TYPECO CC2	5.722028	
TYPECO DN	9.167442	0.0556
TYPECO DP	8.316082	0.0504
TYPECO ID	12.718718	
TYPECO RCLKM	3.284181	
TYPECO RCLKP	4.083754	
TYPECO REXT	5.106986	
TYPECO REXT CC	5.805871	
TYPECO RX1M	8.508699	0.0516
TYPECO RX1P	7.674104	0.0465
TYPECO RX2M	9.432579	0.0572
TYPECO RX2P	8.598292	0.0521
TYPECO TX1M	9.403973	0.0570
TYPECO TX1P	10.241966	0.0621

TYPECO TX2M	8.973122	0.0544
TYPECO TX2P	9.814654	0.0595
TYPECO U2VBUSDET	12.593366	
TYPECO U3VBUSDET	3.343028	
TYPEC1 AUXM	12.220281	0.0741
TYPEC1 AUXM PU PD	5.269544	
TYPEC1 AUXP	11.379969	0.0690
TYPEC1 AUXP PD PU	4.372546	
TYPEC1 AVDD 0V9	7.239469	
TYPEC1 AVDD 1V8	2.306167	
TYPEC1 AVDD 3V3	4.208368	
TYPEC1 CC1	5.859821	
TYPEC1 CC2	4.409617	
TYPEC1 DN	9.852027	0.0597
TYPEC1 DP	8.994187	0.0545
TYPEC1 ID	12.862306	
TYPEC1 RCLKM	3.743494	
TYPEC1 RCLKP	4.576853	
TYPEC1 REXT	5.719633	
TYPEC1 REXT CC	5.923725	
TYPEC1 RX1M	8.928191	0.0541
TYPEC1 RX1P	7.835583	0.0475
TYPEC1 RX2M	11.344701	0.0688
TYPEC1 RX2P	10.505316	0.0637
TYPEC1 TX1M	7.655349	0.0464
TYPEC1 TX1P	8.494523	0.0515
TYPEC1 TX2M	11.951646	0.0724
TYPEC1 TX2P	12.794409	0.0775
TYPEC1 U2VBUSDET	12.633063	
TYPEC1 U3VBUSDET	3.687544	
USB0 DN	6.274455	0.0380
USB0 DP	6.270607	0.0380
USB0 RBIAS	7.611614	
USB1 DN	6.267119	0.0380
USB1 DP	6.367651	0.0386
USB1 RBIAS	8.371434	
USB AVDD 0V9	2.348643	
USB AVDD 1V8	2.684608	
USB AVDD 3V3	4.751548	
USIC AVDD 0V9	3.770272	
USIC AVDD 1V2	3.288785	
USIC DATA	9.320648	0.0565
USIC STROBE	8.827931	0.0535
XIN OSC	7.066605	
XOUT OSC	9.428155	