

Signal	Signal Length (mm)	Routed Length (mm)
CAN0_RX	82.321	82.334
CAN0_TX	82.321	82.34
CAN1_RX	65.184	65.213
CAN1_TX	65.184	65.177
CLK_N	n/a	14.458
CLK_P	n/a	14.458
DDR_CLK0_N	n/a	19.281
DDR_CLK0_P	n/a	19.281
DDR_CLK_N	5.831	5.84
DDR_CLK_P	5.831	5.856
FABRIC_CLK_N	3.802	3.846
FABRIC_CLK_P	3.768	3.797
HP66_19_CC_N	57.041	56.894
HP66_19_CC_P	57.041	56.867
NetR10_1	15.052	15.089
NetR11_1	15.052	15.052
NetR13_1	15.049	15.057
NetR14_1	15.052	15.068
NetR20_1	15.052	15.07
NetR21_1	15.052	15.052
NetR96_2	60.35	60.379
QSPI0_DQ1	60.349	60.349
QSPI0_DQ2	n/a	60.349
QSPI0_DQ3	n/a	60.349
QSPI0_SCK	n/a	60.349
QSPI0_SS	n/a	60.349
NetR145_2	68.193	68.205
QSPI1_DQ1	68.204	68.236
QSPI1_DQ2	n/a	68.193
QSPI1_DQ3	n/a	68.193
QSPI1_SCK	n/a	68.193
QSPI1_SS	n/a	68.193
SD_CLK	48.782	49.118
SD_CMD	48.782	48.993
SD_DATA0	48.782	48.436
SD_DATA1	48.782	49.102
SD_DATA2	48.782	49.019
SD_DATA3	48.782	48.543
V1_N	n/a	25.999
V1_P	n/a	25.999
VREF_N	n/a	29.597
VREF_P	n/a	29.597
DDR4-A0	n/a	89.244
DDR4-A1	n/a	85.328

DDR4-A2	n/a	86.189
DDR4-A3	n/a	87.11
DDR4-A4	n/a	88.546
DDR4-A5	n/a	84.243
DDR4-A6	n/a	84.466
DDR4-A7	n/a	86.671
DDR4-A8	n/a	86.412
DDR4-A9	n/a	86.303
DDR4-A10	n/a	89.496
DDR4-A11	n/a	106.396
DDR4-A12	n/a	86.787
DDR4-A13	n/a	84.996
DDR4-A14_WE_n	n/a	88.345
DDR4-A15_CAS_n	n/a	83.764
DDR4-A16_RAS_n	n/a	106.246
DDR4-ACT_n	n/a	58.86
DDR4-BA0	n/a	86.062
DDR4-BA1	n/a	83.663
DDR4-BG0	n/a	57.946
DDR4-CKE	n/a	84.122
DDR4-CK_N	n/a	85.917
DDR4-CK_P	n/a	85.357
DDR4-CS_n	n/a	92.196
DDR4-DQ0	49.276	49.276
DDR4-DQ1	49.307	49.309
DDR4-DQ2	49.286	49.562
DDR4-DQ3	49.307	49.309
DDR4-DQ4	49.307	49.307
DDR4-DQ5	49.276	49.356
DDR4-DQ6	49.286	49.307
DDR4-DQ7	49.307	49.312
DDR4-DQ8	49.276	49.278
DDR4-DQ9	49.307	49.307
DDR4-DQ10	49.286	49.324
DDR4-DQ11	49.312	49.318
DDR4-DQ12	49.307	49.307
DDR4-DQ13	49.307	49.322
DDR4-DQ14	49.307	49.31
DDR4-DQ15	49.307	49.307
DDR4-DQ16	44.356	44.356
DDR4-DQ17	44.356	44.356
DDR4-DQ18	44.399	44.416
DDR4-DQ19	44.356	44.356
DDR4-DQ20	44.356	44.356
DDR4-DQ21	44.356	44.356
DDR4-DQ22	44.356	44.36
DDR4-DQ23	44.356	44.356

DDR4-DQ24	44.356	44.406
DDR4-DQ25	44.356	44.356
DDR4-DQ26	44.298	44.298
DDR4-DQ27	44.356	44.376
DDR4-DQ28	44.356	44.356
DDR4-DQ29	44.356	44.356
DDR4-DQ30	44.356	44.356
DDR4-DQ31	44.356	44.356
DDR4-ODT	n/a	90.284
DDR4-RESET_n	n/a	53.605
DDR4_ALERT	n/a	72.378
DDR4_DM0	49.307	49.314
DDR4_DM1	49.298	49.298
DDR4_DM2	44.392	44.392
DDR4_DM3	44.357	44.357
DDR4_DQS0_N	49.276	49.281
DDR4_DQS0_P	49.279	49.285
DDR4_DQS1_N	49.276	49.276
DDR4_DQS1_P	49.279	49.28
DDR4_DQS2_N	44.355	44.355
DDR4_DQS2_P	44.356	44.356
DDR4_DQS3_N	44.366	44.368
DDR4_DQS3_P	44.366	44.366
DDR4_PAR	n/a	62.386
DDR4_TEN	n/a	32.581
D_N	66.733	66.484
D_P	66.733	66.479
eMMC CLK	40.161	40.16
eMMC CMD	n/a	40.093
eMMC DATA0	n/a	40.093
eMMC DATA1	n/a	40.093
eMMC DATA2	n/a	40.093
eMMC DATA3	n/a	40.095
eMMC DATA4	n/a	40.103
eMMC DATA5	n/a	40.093
eMMC DATA6	n/a	40.093
eMMC DATA7	n/a	40.093
eMMC_RST_n	n/a	50.045
EM_STRB	3.209	3.218
ETH_MDC	29.469	29.438
ETH_RXCLK	n/a	38.641
ETH_RXCTL	n/a	38.641
ETH_RXD0	n/a	38.641
ETH_RXD1	n/a	38.641
ETH_RXD2	n/a	38.641
ETH_RXD3	n/a	38.641
ETH_TXCLK	15.642	15.684

ETH_TXCTL	15.637	15.668
ETH_TXD0	15.773	15.697
ETH_TXD1	15.642	15.687
ETH_TXD2	15.642	15.691
ETH_TXD3	15.642	15.697
ETH_RXCTL	n/a	11.927
GPHY_ATXRX_N	21.781	21.879
GPHY_ATXRX_P	21.781	21.884
GPHY_BTXXRX_N	21.785	21.806
GPHY_BTXXRX_P	21.785	21.811
GPHY_CTXRX_N	21.777	21.921
GPHY_CTXRX_P	21.777	21.931
GPHY_DTXRX_N	21.777	21.802
GPHY_DTXRX_P	21.769	21.802
GTH_CLK_00_N	n/a	10.229
GTH_CLK_00_P	n/a	10.229
GTH_CLK_01_N	56.13	56.189
GTH_CLK_01_P	56.13	56.189
GTH_RX_00_N	54.494	54.555
GTH_RX_00_P	54.494	54.555
GTH_RX_01_N	54.503	54.546
GTH_RX_01_P	54.5	54.545
GTH_RX_02_N	54.503	54.546
GTH_RX_02_P	54.502	54.546
GTH_RX_03_N	54.502	54.554
GTH_RX_03_P	54.502	54.554
GTH_TX_00_N	55.187	55.246
GTH_TX_00_P	55.186	55.245
GTH_TX_01_N	55.185	55.237
GTH_TX_01_P	55.185	55.237
GTH_TX_02_N	55.187	55.238
GTH_TX_02_P	55.187	55.238
GTH_TX_03_N	55.161	55.22
GTH_TX_03_P	55.167	55.226
GTR_CLK_00_N	58.919	58.97
GTR_CLK_00_P	58.915	58.966
GTR_CLK_01_N	58.901	58.962
GTR_CLK_01_P	58.895	58.956
GTR_CLK_02_N	58.905	58.915
GTR_CLK_02_P	58.877	58.887
GTR_CLK_03_N	58.901	58.931
GTR_CLK_03_P	58.897	58.926
GTR_RX_00_N	62.569	62.62
GTR_RX_00_P	62.56	62.611
GTR_RX_01_N	62.561	62.612
GTR_RX_01_P	62.569	62.628
GTR_RX_02_N	62.548	62.608

GTR_RX_02_P	62.571	62.631
GTR_RX_03_N	62.563	62.621
GTR_RX_03_P	62.569	62.629
GTR_TX_00_N	64.715	64.768
GTR_TX_00_P	64.722	64.783
GTR_TX_01_N	64.71	64.768
GTR_TX_01_P	64.715	64.773
GTR_TX_02_N	64.715	64.765
GTR_TX_02_P	64.709	64.759
GTR_TX_03_N	64.694	64.744
GTR_TX_03_P	64.711	64.771
HD_00_CC_N	39.832	39.555
HD_00_CC_P	39.832	39.582
HD_01_CC_N	30.175	29.843
HD_01_CC_P	30.176	29.945
HD_02_N	33.547	33.262
HD_02_P	33.546	33.29
HD_03_N	25.214	25.468
HD_03_P	25.214	25.486
HD_04_N	29.531	29.251
HD_04_P	29.531	29.279
HD_05_N	23.503	23.527
HD_05_P	23.503	23.507
HD_06_CC_N	34.419	34.132
HD_06_CC_P	34.419	34.16
HD_07_N	29.565	29.815
HD_07_P	29.565	29.815
HD_08_N	31.221	30.98
HD_08_P	31.212	30.999
HD_09_CC_N	26.614	26.629
HD_09_CC_P	26.614	26.617
HD_10_N	33.653	33.412
HD_10_P	33.653	33.437
HD_11_N	32.49	32.799
HD_11_P	32.492	32.768
HD_12_N	51.137	51.37
HD_12_P	51.136	51.293
HD_13_N	33.271	33.532
HD_13_P	33.271	33.473
HD_14_N	49.555	49.732
HD_14_P	49.528	49.686
HD_15_N	32.502	32.803
HD_15_P	32.5	32.787
HD_16_CC_N	52.031	52.032
HD_16_CC_P	52.029	52.057
HD_17_CC_N	51.407	51.666
HD_17_CC_P	51.407	51.672

HD_18_CC_N	38.967	39.224
HD_18_CC_P	38.966	39.204
HD_19_N	31.656	31.945
HD_19_P	31.656	31.837
HD_20_N	47.169	47.38
HD_20_P	47.163	47.362
HD_21_N	41.919	42.2
HD_21_P	41.919	42.172
HD_22_CC_N	45.388	45.401
HD_22_CC_P	45.388	45.41
HD_23_N	39.206	39.485
HD_23_P	39.206	39.472
HD_24_N	66.14	66.398
HD_24_P	66.142	66.362
HD_25_N	51.676	51.826
HD_25_P	51.667	51.737
HD_26_CC_N	61.051	61.119
HD_26_CC_P	61.032	61.092
HD_27_CC_N	59.222	59.265
HD_27_CC_P	59.218	59.302
HD_28_CC_N	68.956	68.998
HD_28_CC_P	68.955	68.972
HD_29_N	73.176	73.234
HD_29_P	73.178	73.235
HP65_00_CC_N	52.261	52.573
HP65_00_CC_P	52.261	52.613
HP65_01_CC_N	105.241	105.528
HP65_01_CC_P	105.218	105.458
HP65_02_N	50.516	50.209
HP65_02_P	50.516	50.182
HP65_03_N	102.603	102.9
HP65_03_P	102.614	102.854
HP65_04_N	45.854	46.062
HP65_04_P	45.855	46.089
HP65_05_CC_N	74.708	74.959
HP65_05_CC_P	74.708	75.053
HP65_06_CC_N	46.376	46.582
HP65_06_CC_P	46.377	46.609
HP65_07_N	50.81	50.463
HP65_07_P	50.808	50.44
HP65_08_N	67.041	67.256
HP65_08_P	67.039	67.279
HP65_09_CC_N	69.346	69.656
HP65_09_CC_P	69.346	69.682
HP65_10_N	68.381	68.621
HP65_10_P	68.381	68.621
HP65_11_CC_N	70.895	71.201

HP65_11_CC_P	70.895	71.289
HP65_12_N	59.238	59.548
HP65_12_P	59.237	59.536
HP65_13_CC_N	70.371	70.679
HP65_13_CC_P	70.374	70.709
HP65_14_N	58.401	58.107
HP65_14_P	58.401	58.082
HP65_15_N	25.745	25.548
HP65_15_P	25.745	25.586
HP65_16_N	31.979	31.736
HP65_16_P	31.979	31.732
HP65_17_CC_N	37.526	37.701
HP65_17_CC_P	37.526	37.676
HP65_18_CC_N	39.596	39.357
HP65_18_CC_P	39.596	39.362
HP65_19_N	35.435	35.583
HP65_19_P	35.456	35.582
HP65_20_CC_N	41.506	41.266
HP65_20_CC_P	41.506	41.252
HP65_21_CC_N	26.806	27.094
HP65_21_CC_P	26.807	27.067
HP65_22_N	43.824	43.581
HP65_22_P	43.828	43.611
HP66_00_CC_N	56.334	56.658
HP66_00_CC_P	56.312	56.628
HP66_01_CC_N	71.2	71.529
HP66_01_CC_P	71.201	71.576
HP66_02_N	50.751	50.52
HP66_02_P	50.751	50.424
HP66_03_N	67.927	68.191
HP66_03_P	67.927	68.206
HP66_04_N	49.483	49.798
HP66_04_P	49.482	49.819
HP66_05_CC_N	57.098	57.341
HP66_05_CC_P	57.097	57.422
HP66_06_CC_N	48.963	49.269
HP66_06_CC_P	48.963	49.296
HP66_07_CC_N	51.98	51.678
HP66_07_CC_P	51.98	51.689
HP66_08_N	42.831	42.523
HP66_08_P	42.831	42.496
HP66_09_N	49.512	49.813
HP66_09_P	49.513	49.859
HP66_10_N	47.411	47.618
HP66_10_P	47.411	47.645
HP66_11_CC_N	50.691	50.931
HP66_11_CC_P	50.691	51.024

HP66_12_N	40.731	40.55
HP66_12_P	40.731	40.521
HP66_13_N	48.101	47.805
HP66_13_P	48.101	47.779
HP66_14_N	45.158	45.363
HP66_14_P	45.158	45.391
HP66_15_CC_N	54.111	54.351
HP66_15_CC_P	54.111	54.444
HP66_16_N	48.145	48.451
HP66_16_P	48.145	48.478
HP66_17_CC_N	50.542	50.768
HP66_17_CC_P	50.536	50.789
HP66_18_CC_N	49.494	49.713
HP66_18_CC_P	49.493	49.726
HP66_20_N	50.139	49.825
HP66_20_P	50.139	49.798
HP66_21_N	75.464	75.149
HP66_21_P	75.464	75.124
HP66_22_N	59.923	60.163
HP66_22_P	59.934	60.259
PL_DDR4-A0	n/a	51.433
PL_DDR4-A1	n/a	51.374
PL_DDR4-A2	n/a	51.374
PL_DDR4-A3	n/a	51.425
PL_DDR4-A4	n/a	51.433
PL_DDR4-A5	n/a	51.425
PL_DDR4-A6	n/a	51.425
PL_DDR4-A7	n/a	51.433
PL_DDR4-A8	n/a	51.433
PL_DDR4-A9	n/a	51.433
PL_DDR4-A10_AP	n/a	51.433
PL_DDR4-A11	n/a	51.433
PL_DDR4-A12_BC_n	n/a	51.433
PL_DDR4-A13	n/a	51.406
PL_DDR4-A14_WE_n	n/a	51.433
PL_DDR4-A15_CAS_n	n/a	51.433
PL_DDR4-A16_RAS_n	n/a	51.433
PL_DDR4-ACT_n	n/a	51.411
PL_DDR4-BA0	n/a	51.411
PL_DDR4-BA1	n/a	51.411
PL_DDR4-BG0	n/a	51.411
PL_DDR4-CKE	n/a	51.411
PL_DDR4-CK_N	n/a	51.491
PL_DDR4-CK_P	n/a	51.503
PL_DDR4-CS_n	n/a	51.411
PL_DDR4-DQ0	37.483	37.471
PL_DDR4-DQ1	37.541	37.593

PL_DDR4-DQ2	37.547	37.521
PL_DDR4-DQ3	37.547	37.518
PL_DDR4-DQ4	37.547	37.519
PL_DDR4-DQ5	37.547	37.563
PL_DDR4-DQ6	37.535	37.516
PL_DDR4-DQ7	37.527	37.553
PL_DDR4-DQ8	37.574	37.547
PL_DDR4-DQ9	37.541	37.557
PL_DDR4-DQ10	37.574	37.547
PL_DDR4-DQ11	37.574	37.591
PL_DDR4-DQ12	37.553	37.526
PL_DDR4-DQ13	37.574	37.591
PL_DDR4-DQ14	37.569	37.541
PL_DDR4-DQ15	37.574	37.591
PL_DDR4-ODT	n/a	51.411
PL_DDR4-RESET_n	n/a	51.433
PL_DDR4_DM0	37.547	37.584
PL_DDR4_DM1	37.574	37.547
PL_DDR4_DQS0_N	37.541	37.545
PL_DDR4_DQS0_P	37.541	37.545
PL_DDR4_DQS1_N	37.541	37.564
PL_DDR4_DQS1_P	37.541	37.588
USB_DATA0	20.889	20.898
USB_DATA1	20.889	20.894
USB_DATA2	20.889	20.896
USB_DATA3	20.889	20.887
USB_DATA4	20.889	20.882
USB_DATA5	20.889	20.897
USB_DATA6	20.889	20.89
USB_DATA7	20.889	20.886
V_N	62.106	62.165
V_P	62.107	62.158