Содержание

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PinDes	Name	Group	Package Pin length(mil)
B6	AC0	DDR	276.81
F5	AC1	DDR	215.83
D6	AC10	DDR	218.38
C2	AC11	DDR	304.42
C4	AC12	DDR	277.72
B8	AC13	DDR	249.65
C5	AC14	DDR	244.33
E4	AC15	DDR	217.54
D5	AC16	DDR	232.08
E6	AC17	DDR	208.13
E11	AC18	DDR	152.87
E9	AC19	DDR	138.75
B1	AC2	DDR	338.78
F8	AC20	DDR	153.63
F7	AC21	DDR	144.48
B3	AC22	DDR	312.78
B4	AC23	DDR	322.4
A4	AC24	DDR	313.78
A2	AC25	DDR	344.42
B2	AC26	DDR	316.41
E8	AC27	DDR	181.09
D8	AC28	DDR	223.57
F11	AC29	DDR	123.93
F4	AC3	DDR	250.62
D9	AC4	DDR	194.1
B7	AC5	DDR	281.65
A7	AC6	DDR	310.88
A8	AC7	DDR	278.67
C1	AC8	DDR	325.81
A5	AC9	DDR	290.85
H5	DDR_DM0_A	DDR	147.74
D14	DDR_DM0_B	DDR	175.84
J4	DDR_DM1_A	DDR	184.24
E17	DDR_DM1_B	DDR	176.52
F2	DDR_DQ0_A	DDR	258.33
B10	DDR_DQ0_B	DDR	239.17
E1	DDR_DQ1_A	DDR	278.41
A9	DDR_DQ1_B	DDR	278.13
L7	DDR_DQ10_A	DDR	95.37
A17	DDR_DQ10_B	DDR	277.32
L6	DDR_DQ11_A	DDR	106.5

PinDes	Name	Group	Package Pin length(mil)
B18	DDR_DQ11_B	DDR	273.54
K2	DDR_DQ12_A	DDR	227.44
B13	DDR_DQ12_B	DDR	264.4
J6	DDR_DQ13_A	DDR	135.4
A13	DDR_DQ13_B	DDR	285.09
J7	DDR_DQ14_A	DDR	84.81
D17	DDR_DQ14_B	DDR	194.36
L4	DDR_DQ15_A	DDR	176.8
B14	DDR_DQ15_B	DDR	258.98
E2	DDR_DQ2_A	DDR	253.63
D12	DDR_DQ2_B	DDR	182.1
D1	DDR_DQ3_A	DDR	303.58
E12	DDR_DQ3_B	DDR	156.15
J1	DDR_DQ4_A	DDR	251.17
A12	DDR_DQ4_B	DDR	278.3
J2	DDR_DQ5_A	DDR	230.15
D15	DDR_DQ5_B	DDR	176.68
H1	DDR_DQ6_A	DDR	248.86
E15	DDR_DQ6_B	DDR	168.53
H4	DDR_DQ7_A	DDR	183.75
E14	DDR_DQ7_B	DDR	154.56
M1	DDR_DQ8_A	DDR	255.64
A16	DDR_DQ8_B	DDR	285.48
N2	DDR_DQ9_A	DDR	226.83
B17	DDR_DQ9_B	DDR	255.55
G2	DDR_DQS0N_A	DDR	279.09
B11	DDR_DQS0N_B	DDR	242.83
G1	DDR_DQS0P_A	DDR	269.3
A11	DDR_DQS0P_B	DDR	256.29
L1	DDR_DQS1N_A	DDR	240.92
A15	DDR_DQS1N_B	DDR	264.99
L2	DDR_DQS1P_A	DDR	234.5
B15	DDR_DQS1P_B	DDR	268.35
P7	DDR_ECC_DM	DDR	119.85
P5	DDR_ECC_DQ0	DDR	155.46
M4	DDR_ECC_DQ1	DDR	165.35
M5	DDR_ECC_DQ2	DDR	130.79
R5	DDR_ECC_DQ3	DDR	153.43
M7	DDR_ECC_DQ4	DDR	93.64
R7	DDR_ECC_DQ5	DDR	135.56
P4	DDR_ECC_DQ6	DDR	201.25
R4	DDR_ECC_DQ7	DDR	179.34
P1	DDR_ECC_DQS_N	DDR	264.37

PinDes	Name	Group	Package Pin length(mil)
P2	DDR_ECC_DQS_P	DDR	251.79
M25	eDP_TX_AUXN	eDP	138.73
L25	eDP_TX_AUXP	eDP	136.31
K27	eDP_TX_D0N	eDP	250.22
J28	eDP_TX_D0P	eDP	238.75
L27	eDP_TX_D1N	eDP	228.57
K28	eDP_TX_D1P	eDP	220.35
M27	eDP_TX_D2N	eDP	234.58
L28	eDP_TX_D2P	eDP	225.33
N27	eDP_TX_D3N	eDP	234.21
M28	eDP_TX_D3P	eDP	229.23
D18	GPIO1_A0_u	GPIO1	177.56
E18	GPIO1_A1_u	GPIO1	128.76
A19	GPIO1_A2_d	GPIO1	250.88
B19	GPIO1_A3_d	GPIO1	226.93
F18	GPIO1_A4_d	GPIO1	99.09
A20	GPIO1_A5_d	GPIO1	263.45
C20	GPIO1_A6_d	GPIO1	222.9
B20	GPIO1_A7_d	GPIO1	230.95
D20	GPIO1_B0_d	GPIO1	204.53
E20	GPIO1_B1_d	GPIO1	191.59
A21	GPIO1_B2_d	GPIO1	263.45
B21	GPIO1_B3_d	GPIO1	244.78
A24	GPIO1_B4_u	GPIO1	274.99
C21	GPIO1_B5_u	GPIO1	222.16
B24	GPIO1_B6_u	GPIO1	302.75
D21	GPIO1_B7_u	GPIO1	200.00
A25	GPIO1_C0_u	GPIO1	305.02
E21	GPIO1_C1_u	GPIO1	170.33
E22	GPIO1_C2_u	GPIO1	179.1
B25	GPIO1_C3_u	GPIO1	302.11
B22	GPIO1_C4_u	GPIO1	266.12
A23	GPIO1_C5_d	GPIO1	282.31
A26	GPIO1_C6_d	GPIO1	335.25
F20	GPIO1_C7_d	GPIO1	163.07
A22	GPIO1_D0_d	GPIO1	294.87
C24	GPIO1_D1_u	GPIO1	249.03
D23	GPIO1_D2_u	GPIO1	225.32
C23	GPIO1_D3_u	GPIO1	267.75
A27	GPIO1_D4_u	GPIO1	320.42
J25	GPIO1_D5_u	GPIO1	187.9
J24	GPIO1_D6_u	GPIO1	129.06
H26	GPIO1_D7_u	GPIO1	207.15

PinDes	Name	Group	Package Pin length(mil)
J23	GPIO2_A0_u	GPIO2	119.63
H27	GPIO2_A1_u	GPIO2	234.14
H28	GPIO2_A2_d	GPIO2	238.25
E27	GPIO2_A3_u	GPIO2	254.44
E28	GPIO2_A4_u	GPIO2	274.89
B28	GPIO2_A5_u	GPIO2	341.8
C27	GPIO2_A6_u	GPIO2	312.32
C28	GPIO2_A7_u	GPIO2	299.12
D27	GPIO2_B0_d	GPIO2	257.34
D26	GPIO2_B1_d	GPIO2	248.12
E25	GPIO2_B2_u	GPIO2	220.16
F28	GPIO2_B3_u	GPIO2	249.1
G27	GPIO2_B4_u	GPIO2	220.84
G28	GPIO2_B5_u	GPIO2	246.5
F27	GPIO2_B6_u	GPIO2	290.81
H25	GPIO2_B7_d	GPIO2	173.26
F24	GPIO2_C0_d	GPIO2	171.29
G23	GPIO2_C1_d	GPIO2	119.74
F25	GPIO2_C2_d	GPIO2	195.93
H24	GPIO2_C3_d	GPIO2	143.41
H23	GPIO2_C4_d	GPIO2	120.81
F26	GPIO2_C5_d	GPIO2	211.9
E26	GPIO2_C6_d	GPIO2	234.29
AG6	GPIO2_D0_d	GPIO2	327.56
AD7	GPIO2_D1_d	GPIO2	253.4
AC8	GPIO2_D2_d	GPIO2	193.17
AC7	GPIO2_D3_d	GPIO2	217.33
AF5	GPIO2_D4_d	GPIO2	313.13
AF6	GPIO2_D5_d	GPIO2	298.12
AD6	GPIO2_D6_d	GPIO2	261.99
AH5	GPIO2_D7_d	GPIO2	364.87
AH4	GPIO3_A0_d	GPIO3	367.52
AB8	GPIO3_A1_d	GPIO3	170.82
AE5	GPIO3_A2_d	GPIO3	286.55
AG4	GPIO3_A3_d	GPIO3	336.56
AF4	GPIO3_A4_d	GPIO3	317.96
AH3	GPIO3_A5_d	GPIO3	372.61
AG3	GPIO3_A6_d	GPIO3	342.11
AH2	GPIO3_A7_d	GPIO3	380.47
AG2	GPIO3_B0_d	GPIO3	359.62
AG1	GPIO3_B1_d	GPIO3	370.52
AF2	GPIO3_B2_d	GPIO3	339.37
AF1	GPIO3_B3_d	GPIO3	358.4

PinDes	Name	Group	Package Pin length(mil)
AE1	GPIO3_B4_d	GPIO3	342.28
AE2	GPIO3_B5_d	GPIO3	320.64
AE3	GPIO3_B6_d	GPIO3	280.3
AD4	GPIO3_B7_d	GPIO3	254.43
AD2	GPIO3_C0_d	GPIO3	281.93
AD1	GPIO3_C1_d	GPIO3	304.17
AA7	GPIO3_C2_d	GPIO3	127.37
AC4	GPIO3_C3_d	GPIO3	226.39
AC3	GPIO3_C4_d	GPIO3	250.96
AC2	GPIO3_C5_d	GPIO3	269.04
AC5	GPIO3_C6_d	GPIO3	243.33
AA6	GPIO3_C7_d	GPIO3	171.49
AB5	GPIO3_D0_d	GPIO3	197.65
AB1	GPIO3_D1_d	GPIO3	304.22
Y7	GPIO3_D2_d	GPIO3	144.15
AC1	GPIO3_D3_d	GPIO3	337.43
AA1	GPIO3_D4_d	GPIO3	300.61
AA5	GPIO3_D5_d	GPIO3	190
Y6	GPIO3_D6_d	GPIO3	171.09
Y5	GPIO3_D7_d	GPIO3	188.71
AA3	GPIO4_A0_d	GPIO4	249.81
AA2	GPIO4_A1_d	GPIO4	277.2
Y4	GPIO4_A2_d	GPIO4	248.79
Y3	GPIO4_A3_d	GPIO4	243.86
Y2	GPIO4_A4_d	GPIO4	284.31
Y1	GPIO4_A5_d	GPIO4	287.72
W2	GPIO4_A6_d	GPIO4	281.48
W1	GPIO4_A7_d	GPIO4	287.26
V7	GPIO4_B0_d	GPIO4	150.89
V2	GPIO4_B1_d	GPIO4	269.66
V4	GPIO4_B2_d	GPIO4	207.82
V1	GPIO4_B3_d	GPIO4	289.86
V6	GPIO4_B4_d	GPIO4	168.72
V5	GPIO4_B5_d	GPIO4	205.71
U5	GPIO4_B6_d	GPIO4	152.4
U4	GPIO4_B7_d	GPIO4	233.12
U3	GPIO4_C0_d	GPIO4	222.7
U2	GPIO4_C1_d	GPIO4	243.75
AF8	GPIO4_C2_d	GPIO4	295.62
AA11	GPIO4_C3_d	GPIO4	141.35
AH7	GPIO4_C4_d	GPIO4	355.6
AD8	GPIO4_C5_d	GPIO4	250.59
AE8	GPIO4_C6_d	GPIO4	274.62

PinDes	Name	Group	Package Pin length(mil)
AG8	GPIO4_C7_u	GPIO4	326.21
AG7	GPIO4_D0_u	GPIO4	328.77
AH6	GPIO4_D1_u	GPIO4	358.67
AB9	GPIO4_D2_d	GPIO4	167.55
AG19	HDMI_TX_CLKN	HDMI	307.11
AH19	HDMI_TX_CLKP	HDMI	322.21
AH20	HDMI_TX_D0N	HDMI	318.5
AG20	HDMI_TX_D0P	HDMI	321.7
AH21	HDMI_TX_D1N	HDMI	330.13
AG21	HDMI_TX_D1P	HDMI	332.57
AH22	HDMI_TX_D2N	HDMI	339.51
AG22	HDMI_TX_D2P	HDMI	339.16
AH10	MIPI_CSI_RX_CLK0N	CSI	342.43
AG10	MIPI_CSI_RX_CLK0P	CSI	338.2
AH9	MIPI_CSI_RX_CLK1N	CSI	351.9
AG9	MIPI_CSI_RX_CLK1P	CSI	348.46
AH12	MIPI_CSI_RX_D0N	CSI	326.25
AG12	MIPI_CSI_RX_D0P	CSI	317.69
AH11	MIPI_CSI_RX_D1N	CSI	332.8
AG11	MIPI_CSI_RX_D1P	CSI	328.53
AD11	MIPI_CSI_RX_D2N	CSI	259.27
AE11	MIPI_CSI_RX_D2P	CSI	253.67
AE9	MIPI_CSI_RX_D3N	CSI	275.61
AD9	MIPI_CSI_RX_D3P	CSI	269.86
AG15	MIPI_DSI_TX0_CLKN/LVDS_TX0_CLKN	DSI_TX0_LVDS_TX0	309.78
AH15	MIPI_DSI_TX0_CLKP/LVDS_TX0_CLKP	DSI_TX0_LVDS_TX0	310.29
AG17	MIPI_DSI_TX0_D0N/LVDS_TX0_D0N	DSI_TX0_LVDS_TX0	303.23
AH17	MIPI_DSI_TX0_D0P/LVDS_TX0_D0P	DSI_TX0_LVDS_TX0	297.41
AG16	MIPI_DSI_TX0_D1N/LVDS_TX0_D1N	DSI_TX0_LVDS_TX0	307.23
AH16	MIPI_DSI_TX0_D1P/LVDS_TX0_D1P	DSI_TX0_LVDS_TX0	303.94
AG14	MIPI_DSI_TX0_D2N/LVDS_TX0_D2N	DSI_TX0_LVDS_TX0	326.74
AH14	MIPI_DSI_TX0_D2P/LVDS_TX0_D2P	DSI_TX0_LVDS_TX0	322.34
AG13	MIPI_DSI_TX0_D3N/LVDS_TX0_D3N	DSI_TX0_LVDS_TX0	353.77
AH13	MIPI_DSI_TX0_D3P/LVDS_TX0_D3P	DSI_TX0_LVDS_TX0	349.25
AE15	MIPI_DSI_TX1_CLKN	DSI_TX1	224.98
AD15	MIPI_DSI_TX1_CLKP	DSI_TX1	219.65
AE18	MIPI_DSI_TX1_D0N	DSI_TX1	277.06
AD18	MIPI_DSI_TX1_D0P	DSI_TX1	271.94
AC17	MIPI_DSI_TX1_D1N	DSI_TX1	220.39
AD17	MIPI_DSI_TX1_D1P	DSI_TX1	227.71
AC14	MIPI_DSI_TX1_D2N	DSI_TX1	197.9
AD14	MIPI_DSI_TX1_D2P	DSI_TX1	196.62
AE12	MIPI_DSI_TX1_D3N	DSI_TX1	237.62

PinDes	Name	Group	Package Pin length(mil)
AD12	MIPI_DSI_TX1_D3P	DSI_TX1	226.07
R25	MULTI_PHY0_REFCLKN	MULTI_PHY_CLK	147.75
R24	MULTI_PHY0_REFCLKP	MULTI_PHY_CLK	134.71
U24	MULTI_PHY1_REFCLKN	MULTI_PHY_CLK	161.1
U25	MULTI_PHY1_REFCLKP	MULTI_PHY_CLK	161.32
V25	PCIE20_REFCLKN	PCIE20	168.85
V24	PCIE20_REFCLKP	PCIE20	161.44
Y28	PCIE20_RXN/SATA2_RXN/QSGMII_RXN_M1	PCIE20	286.61
Y27	PCIE20_RXP/SATA2_RXP/QSGMII_RXP_M1	PCIE20	277.64
W28	PCIE20_TXN/SATA2_TXN/QSGMII_TXN_M1	PCIE20	284.38
W27	PCIE20_TXP/SATA2_TXP/QSGMII_TXP_M1	PCIE20	274.94
AA25	PCIE30_REFCLKN_IN	PCIE30	246.94
Y25	PCIE30_REFCLKP_IN	PCIE30	260.47
AC27	PCIE30_RX0N	PCIE30	300.62
AC28	PCIE30_RX0P	PCIE30	296.6
AD27	PCIE30_RX1N	PCIE30	329.37
AD28	PCIE30_RX1P	PCIE30	336.44
AA27	PCIE30_TX0N	PCIE30	282.72
AA28	PCIE30_TX0P	PCIE30	276.89
AB27	PCIE30_TX1N	PCIE30	292.78
AB28	PCIE30_TX1P	PCIE30	300.14
R1	USB2_HOST2_DM	USB	252.47
R2	USB2_HOST2_DP	USB	258.03
T1	USB2_HOST3_DM	USB	254.6
T2	USB2_HOST3_DP	USB	258.76
P25	USB3_HOST1_DM	USB	145.46
P24	USB3_HOST1_DP	USB	141.39
U27	USB3_HOST1_SSRXN/SATA1_RXN/QSGMII_RXN_M0	USB	238.12
U28	USB3_HOST1_SSRXP/SATA1_RXP/QSGMII_RXP_M0	USB	236.2
V27	USB3_HOST1_SSTXN/SATA1_TXN/QSGMII_TXN_M0	USB	267.24
V28	USB3_HOST1_SSTXP/SATA1_TXP/QSGMII_TXP_M0	USB	269
P28	USB3_OTG0_DM	USB	221.43
P27	USB3_OTG0_DP	USB	222.12
R27	USB3_OTG0_SSRXN/SATA0_RXN	USB	205.59
R28	USB3_OTG0_SSRXP/SATA0_RXP	USB	219.73
T27	USB3_OTG0_SSTXN/SATA0_TXN	USB	276.86
T28	USB3_OTG0_SSTXP/SATA0_TXP	USB	269.61
J27	AVSS_1	AVSS	
R26	AVSS_10	AVSS	
U23	AVSS_11	AVSS	
U26	AVSS_12	AVSS	
V14	AVSS_13	AVSS	
V15	AVSS_14	AVSS	

PinDes	Name	Group	Package Pin length(mil)
V16	AVSS_15	AVSS	
V22	AVSS_16	AVSS	
V23	AVSS_17	AVSS	
V26	AVSS_18	AVSS	
W17	AVSS_19	AVSS	
L24	AVSS_2	AVSS	
Y18	AVSS_20	AVSS	
Y23	AVSS_21	AVSS	
Y24	AVSS_22	AVSS	
Y26	AVSS_23	AVSS	
AA12	AVSS_24	AVSS	
AA14	AVSS_25	AVSS	
AA15	AVSS_26	AVSS	
AA17	AVSS_27	AVSS	
AA24	AVSS_28	AVSS	
AA26	AVSS_29	AVSS	
L26	AVSS_3	AVSS	
AB11	AVSS_30	AVSS	
AB12	AVSS_31	AVSS	
AB14	AVSS_32	AVSS	
AB15	AVSS_33	AVSS	
AB17	AVSS_34	AVSS	
AC9	AVSS_35	AVSS	
AC11	AVSS_36	AVSS	
AC12	AVSS_37	AVSS	
AC15	AVSS_38	AVSS	
AC18	AVSS_39	AVSS	
M21	AVSS_4	AVSS	
AC25	AVSS_40	AVSS	
AC26	AVSS_41	AVSS	
AD26	AVSS_42	AVSS	
AE14	AVSS_43	AVSS	
AE17	AVSS_44	AVSS	
AE20	AVSS_45	AVSS	
AE27	AVSS_46	AVSS	
AE28	AVSS_47	AVSS	
AF9	AVSS_48	AVSS	
AF11	AVSS_49	AVSS	
M26	AVSS_5	AVSS	
AF12	AVSS_50	AVSS	
AF14	AVSS_51	AVSS	
AF15	AVSS_52	AVSS	
AF17	AVSS_53	AVSS	

PinDes	Name	Group	Package Pin length(mil)
AF18	AVSS_54	AVSS	
AF20	AVSS_55	AVSS	
AF21	AVSS_56	AVSS	
AG18	AVSS_57	AVSS	
AH18	AVSS_58	AVSS	
AH23	AVSS_59	AVSS	
N28	AVSS_6	AVSS	
P21	AVSS_7	AVSS	
P26	AVSS_8	AVSS	
R23	AVSS_9	AVSS	
J8	DDR_AVSS	DDR	
H7	DDR_RZQ	DDR	
P8	DDR_VREFOUT	DDR	
H9	DDRPHY_VDDQ_1	DDR	
H11	DDRPHY_VDDQ_2	DDR	
H12	DDRPHY_VDDQ_3	DDR	
H14	DDRPHY_VDDQ_4	DDR	
H15	DDRPHY_VDDQ_5	DDR	
J9	DDRPHY_VDDQ_6	DDR	
L9	DDRPHY_VDDQ_7	DDR	
M9	DDRPHY_VDDQ_8	DDR	
J11	DDRPHY_VDDQL_1	DDR	
J12	DDRPHY_VDDQL_2	DDR	
J14	DDRPHY_VDDQL_3	DDR	
K10	DDRPHY_VDDQL_4	DDR	
L10	DDRPHY_VDDQL_5	DDR	
M10	DDRPHY_VDDQL_6	DDR	
M20	eDP_TX_AVDD_0V9	eDP	
M22	eDP_TX_AVDD_1V8	eDP	
AG27	GPIO0_A0_d	GPIO0	
AG26	GPIO0_A1_z	GPIO0	
AG28	GPIO0_A2_d	GPIO0	
AA22	GPIO0_A3_u	GPIO0	
Y22	GPIO0_A4_u	GPIO0	
AF25	GPIO0_A5_d	GPIO0	
AE24	GPIO0_A6_d	GPIO0	
AG25	GPIO0_A7_u	GPIO0	
AD23	GPIO0_B0_u	GPIO0	
AF24	GPIO0_B1_u	GPIO0	
AB21	GPIO0_B2_u	GPIO0	
AG24	GPIO0_B3_u	GPIO0	
AB20	GPIO0_B4_u	GPIO0	
AC22	GPIO0_B5_u	GPIO0	

PinDes	Name	Group	Package Pin length(mil)
AA20	GPIO0_B6_u	GPIO0	
AH26	GPIO0_B7_d	GPIO0	
AD22	GPIO0_C0_d	GPIO0	
AF23	GPIO0_C1_d	GPIO0	
AG23	GPIO0_C2_d	GPIO0	
AE23	GPIO0_C3_d	GPIO0	
AD21	GPIO0_C4_d	GPIO0	
AC21	GPIO0_C5_d	GPIO0	
AD20	GPIO0_C6_d	GPIO0	
AH25	GPIO0_C7_d	GPIO0	
AC20	GPIO0_D0_u	GPIO0	
AH24	GPIO0_D1_u	GPIO0	
AE26	GPIO0_D3_d	GPIO0	
AB23	GPIO0_D4_d	GPIO0	
AD25	GPIO0_D5_d	GPIO0	
AC24	GPIO0_D6_d	GPIO0	
V17	HDMI_TX_AVDD_0V9_1	HDMI	
V18	HDMI_TX_AVDD_0V9_2	HDMI	
W18	HDMI_TX_AVDD_1V8	HDMI	
AB18	HDMI_TX_HPDIN	HDMI	
AA18	HDMI_TX_REXT	HDMI	
W14	MIPI_CSI_RX_AVDD_0V9	CSI	
Y14	MIPI_CSI_RX_AVDD_1V8	CSI	
W16	MIPI_DSI_TX0/LVDS_TX0_AVDD_0V9	DSI_TX0_LVDS_TX0	
Y17	MIPI_DSI_TX0/LVDS_TX0_AVDD_1V8	DSI_TX0_LVDS_TX0	
W15	MIPI_DSI_TX1_AVDD_0V9	DSI_TX1	
Y15	MIPI_DSI_TX1_AVDD_1V8	DSI_TX1	
R20	MULTI_PHY_AVDD_0V9_1	MULTI_PHY	
R21	MULTI_PHY_AVDD_0V9_2	MULTI_PHY	
R22	MULTI_PHY_AVDD_1V8	MULTI_PHY	
AH27	NPOR_u	SYS	
H20	OTP_VCC18	SYS	
U21	PCIE30_AVDD_0V9_1	PCIE30	
U20	PCIE30_AVDD_0V9_2	PCIE30	
U22	PCIE30_AVDD_1V8	PCIE30	
U19	PCIE30_RESREF	PCIE30	
V19	PMU_VDD_LOGIC_0V9	PMU	
Y20	PMUIO1	PMU	
W19	PMUIO2	PMU	
V21	PMUPLL_AVDD_0V9	PMU	
Y21	PMUPLL_AVDD_1V8	PMU	
V20	PMUPLL_AVSS	PMU	
H22	SARADC_AVDD_1V8	SARADC	

PinDes	Name	Group	Package Pin length(mil)
B27	SARADC_VIN0	SARADC	
C26	SARADC_VIN1	SARADC	
D24	SARADC_VIN2	SARADC	
E23	SARADC_VIN3	SARADC	
G21	SARADC_VIN4	SARADC	
F22	SARADC_VIN5	SARADC	
G20	SARADC_VIN6	SARADC	
F21	SARADC_VIN7	SARADC	
P11	SYSPLL_AVDD_0V9	SYSPLL	
N10	SYSPLL_AVDD_1V8	SYSPLL	
N11	SYSPLL_AVSS	SYSPLL	
AB24	TVSS	SYS	
R8	USB2_AVDD_0V9	USB	
P9	USB2_AVDD_1V8	USB	
P10	USB2_AVDD_3V3	USB	
P22	USB3_AVDD_0V9	USB	
P23	USB3_AVDD_1V8	USB	
M23	USB3_AVDD_3V3	USB	
L23	USB3_OTG0_ID	USB	
M24	USB3_OTG0_VBUSDET	USB	
H17	VCCIO1	VCCIO	
H18	VCCIO2	VCCIO	
L22	VCCIO3	VCCIO	
J21	VCCIO4	VCCIO	
V10	VCCIO5_1	VCCIO	
V11	VCCIO5_2	VCCIO	
R9	VCCIO6_1	VCCIO	
U9	VCCIO6_2	VCCIO	
V12	VCCIO7	VCCIO	
J15	VDD_CPU_1	VDD	
M17	VDD_CPU_10	VDD	
K15	VDD_CPU_2	VDD	
K16	VDD_CPU_3	VDD	
K17	VDD_CPU_4	VDD	
K18	VDD_CPU_5	VDD	
L15	VDD_CPU_6	VDD	
L16	VDD_CPU_7	VDD	
L17	VDD_CPU_8	VDD	
L18	VDD_CPU_9	VDD	
M15	VDD_CPU_COM	VDD	
R13	VDD_GPU_1	VDD	
T13	VDD_GPU_2	VDD	
U11	VDD_GPU_3	VDD	

PinDes	Name	Group	Package Pin length(mil)
U12	VDD_GPU_4	VDD	
U13	VDD_GPU_5	VDD	
L12	VDD_LOGIC_1	VDD	
T16	VDD_LOGIC_10	VDD	
M12	VDD_LOGIC_2	VDD	
N13	VDD_LOGIC_3	VDD	
N16	VDD_LOGIC_4	VDD	
P13	VDD_LOGIC_5	VDD	
P16	VDD_LOGIC_6	VDD	
R12	VDD_LOGIC_7	VDD	
R16	VDD_LOGIC_8	VDD	
T12	VDD_LOGIC_9	VDD	
M19	VDD_NPU_1	VDD	
N19	VDD_NPU_2	VDD	
P18	VDD_NPU_3	VDD	
P19	VDD_NPU_4	VDD	
P20	VDD_NPU_5	VDD	
A1	VSS_1	VSS	
B12	VSS_10	VSS	
R15	VSS_100	VSS	
R17	VSS_101	VSS	
R18	VSS_102	VSS	
R19	VSS_103	VSS	
T10	VSS_104	VSS	
T11	VSS_105	VSS	
T14	VSS_106	VSS	
T15	VSS_107	VSS	
T17	VSS_108	VSS	
T18	VSS_109	VSS	
B16	VSS_11	VSS	
T19	VSS_110	VSS	
U1	VSS_111	VSS	
U6	VSS_112	VSS	
U7	VSS_113	VSS	
U8	VSS_114	VSS	
U10	VSS_115	VSS	
U14	VSS_116	VSS	
U15	VSS_117	VSS	
U16	VSS_118	VSS	
U17	VSS_119	VSS	
B23	VSS_12	VSS	
U18	VSS_120	VSS	
V3	VSS_121	VSS	

PinDes	Name	Group	Package Pin length(mil)
V8	VSS_122	VSS	
V9	VSS_123	VSS	
V13	VSS_124	VSS	
W10	VSS_125	VSS	
W11	VSS_126	VSS	
W12	VSS_127	VSS	
W13	VSS_128	VSS	
Y8	VSS_129	VSS	
B26	VSS_13	VSS	
Y9	VSS_130	VSS	
Y11	VSS_131	VSS	
Y12	VSS_132	VSS	
AA4	VSS_133	VSS	
AA9	VSS_134	VSS	
AA23	VSS_135	VSS	
AB2	VSS_136	VSS	
AB6	VSS_137	VSS	
AD3	VSS_138	VSS	
AE6	VSS_139	VSS	
C3	VSS_14	VSS	
AE21	VSS_140	VSS	
AF3	VSS_141	VSS	
AF26	VSS_142	VSS	
AG5	VSS_143	VSS	
AH1	VSS_144	VSS	
AH8	VSS_145	VSS	
AH28	VSS_146	VSS	
C6	VSS_15	VSS	
C8	VSS_16	VSS	
C9	VSS_17	VSS	
C11	VSS_18	VSS	
C12	VSS_19	VSS	
A3	VSS_2	VSS	
C14	VSS_20	VSS	
C15	VSS_21	VSS	
C17	VSS_22	VSS	
C18	VSS_23	VSS	
C25	VSS_24	VSS	
D2	VSS_25	VSS	
D3	VSS_26	VSS	
D11	VSS_27	VSS	
D28	VSS_28	VSS	
E3	VSS_29	VSS	

PinDes	Name	Group	Package Pin length(mil)
A6	VSS_3	VSS	
E7	VSS_30	VSS	
F1	VSS_31	VSS	
F3	VSS_32	VSS	
F9	VSS_33	VSS	
F12	VSS_34	VSS	
F14	VSS_35	VSS	
F15	VSS_36	VSS	
F17	VSS_37	VSS	
G5	VSS_38	VSS	
G6	VSS_39	VSS	
A10	VSS_4	VSS	
G8	VSS_40	VSS	
G9	VSS_41	VSS	
G11	VSS_42	VSS	
G12	VSS_43	VSS	
G14	VSS_44	VSS	
G15	VSS_45	VSS	
G17	VSS_46	VSS	
G18	VSS_47	VSS	
G24	VSS_48	VSS	
H2	VSS_49	VSS	
A14	VSS_5	VSS	
H3	VSS_50	VSS	
H6	VSS_51	VSS	
J3	VSS_52	VSS	
J5	VSS_53	VSS	
J17	VSS_54	VSS	
J18	VSS_55	VSS	
J20	VSS_56	VSS	
J22	VSS_57	VSS	
J26	VSS_58	VSS	
K1	VSS_59	VSS	
A18	VSS_6	VSS	
K11	VSS_60	VSS	
K12	VSS_61	VSS	
K13	VSS_62	VSS	
K14	VSS_63	VSS	
K19	VSS_64	VSS	
L3	VSS_65	VSS	
L5	VSS_66	VSS	
L8	VSS_67	VSS	
L11	VSS_68	VSS	

PinDes	Name	Group	Package Pin length(mil)
L13	VSS_69	VSS	
A28	VSS_7	VSS	
L14	VSS_70	VSS	
L19	VSS_71	VSS	
L20	VSS_72	VSS	
L21	VSS_73	VSS	
M2	VSS_74	VSS	
M3	VSS_75	VSS	
M6	VSS_76	VSS	
M8	VSS_77	VSS	
M11	VSS_78	VSS	
M13	VSS_79	VSS	
B5	VSS_8	VSS	
M14	VSS_80	VSS	
M16	VSS_81	VSS	
M18	VSS_82	VSS	
N1	VSS_83	VSS	
N12	VSS_84	VSS	
N14	VSS_85	VSS	
N15	VSS_86	VSS	
N17	VSS_87	VSS	
N18	VSS_88	VSS	
P3	VSS_89	VSS	
B9	VSS_9	VSS	
P6	VSS_90	VSS	
P12	VSS_91	VSS	
P14	VSS_92	VSS	
P15	VSS_93	VSS	
P17	VSS_94	VSS	
R3	VSS_95	VSS	
R6	VSS_96	VSS	
R10	VSS_97	VSS	
R11	VSS_98	VSS	
R14	VSS_99	VSS	
AF28	XIN24M	XTAL	
AF27	XOUT24M	XTAL	

Pin Number	Pin Name	Package Pin length(mil)
Part F		
F2	DDR_DQ0_A/DDR4_DQL0_A/LPDDR4_DQ0_A/DDR3_DQ0/LPDDR3_DQ15	258.33
E1	DDR_DQ1_A/DDR4_DQL2_A/LPDDR4_DQ1_A/DDR3_DQ1/LPDDR3_DQ14	278.41
E2	DDR_DQ2_A/DDR4_DQL4_A/LPDDR4_DQ2_A/DDR3_DQ2/LPDDR3_DQ10	253.63
D1	DDR_DQ3_A/DDR4_DQL6_A/LPDDR4_DQ3_A/DDR3_DQ3/LPDDR3_DQ9	303.58

Pin Number	Pin Name	Package Pin length(mil)
Part F		
J1	DDR_DQ4_A/DDR4_DQL7_A/LPDDR4_DQ4_A/DDR3_DQ4/LPDDR3_DQ13	251.17
J2	DDR_DQ5_A/DDR4_DQL5_A/LPDDR4_DQ5_A/DDR3_DQ5/LPDDR3_DQ12	230.15
H1	DDR_DQ6_A/DDR4_DQL3_A/LPDDR4_DQ6_A/DDR3_DQ6/LPDDR3_DQ8	248.86
H4	DDR_DQ7_A/DDR4_DQL1_A/LPDDR4_DQ7_A/DDR3_DQ7/LPDDR3_DQ11	183.75
H5	DDR_DM0_A/DDR4_DML_A/LPDDR4_DM0_A/DDR3_DM0/LPDDR3_DM1	147.74
G1	DDR_DQS0P_A/DDR4_DQSL_P_A/LPDDR4_DQS0P_A/DDR3_DQS0P/LPDDR3_DQS1P	269.30
G2	DDR_DQS0N_A/DDR4_DQSL_N_A/LPDDR4_DQS0N_A/DDR3_DQS0N/LPDDR3_DQS1N	279.09
M1	DDR_DQ8_A/DDR4_DQU3_A/LPDDR4_DQ8_A/DDR3_DQ8/LPDDR3_DQ25	255.64
N2	DDR_DQ9_A/DDR4_DQU1_A/LPDDR4_DQ9_A/DDR3_DQ9/LPDDR3_DQ24	226.83
L7	DDR_DQ10_A/DDR4_DQU7_A/LPDDR4_DQ10_A/DDR3_DQ10/LPDDR3_DQ28	95.37
L6	DDR_DQ11_A/DDR4_DQU5_A/LPDDR4_DQ11_A/DDR3_DQ11/LPDDR3_DQ29	106.50
K2	DDR_DQ12_A/DDR4_DQU2_A/LPDDR4_DQ12_A/DDR3_DQ12/LPDDR3_DQ26	227.44
J6	DDR_DQ13_A/DDR4_DQU4_A/LPDDR4_DQ13_A/DDR3_DQ13/LPDDR3_DQ31	135.40
J7	DDR_DQ14_A/DDR4_DQU6_A/LPDDR4_DQ14_A/DDR3_DQ14/LPDDR3_DQ30	84.81
L4	DDR_DQ15_A/DDR4_DQU0_A/LPDDR4_DQ15_A/DDR3_DQ15/LPDDR3_DQ27	176.80
J4	DDR_DM1_A/DDR4_DMU_A/LPDDR4_DM1_A/DDR3_DM1/LPDDR3_DM3	184.24
L2	DDR_DQS1P_A/DDR4_DQSU_P_A/LPDDR4_DQS1P_A/DDR3_DQS1P/LPDDR3_DQS3P	234.50
L1	DDR_DQS1N_A/DDR4_DQSU_N_A/LPDDR4_DQS1N_A/DDR3_DQS1N/LPDDR3_DQS3N	240.92
B10	DDR_DQ0_B/DDR4_DQU7_B/LPDDR4_DQ0_B/DDR3_DQ16/LPDDR3_DQ1	239.17
A9	DDR_DQ1_B/DDR4_DQU5_B/LPDDR4_DQ1_B/DDR3_DQ17/LPDDR3_DQ5	278.13
D12	DDR_DQ2_B/DDR4_DQU3_B/LPDDR4_DQ2_B/DDR3_DQ18/LPDDR3_DQ6	182.10
E12	DDR_DQ3_B/DDR4_DQU1_B/LPDDR4_DQ3_B/DDR3_DQ19/LPDDR3_DQ4	156.15
A12	DDR_DQ4_B/DDR4_DQU0_B/LPDDR4_DQ4_B/DDR3_DQ20/LPDDR3_DQ2	278.30
D15	DDR_DQ5_B/DDR4_DQU6_B/LPDDR4_DQ5_B/DDR3_DQ21/LPDDR3_DQ3	176.68
E15	DDR_DQ6_B/DDR4_DQU4_B/LPDDR4_DQ6_B/DDR3_DQ22/LPDDR3_DQ7	168.53
E14	DDR_DQ7_B/DDR4_DQU2_B/LPDDR4_DQ7_B/DDR3_DQ23/LPDDR3_DQ0	154.56
D14	DDR_DM0_B/DDR4_DMU_B/LPDDR4_DM0_B/DDR3_DM2/LPDDR3_DM0	175.84
A11	DDR_DQS0P_B/DDR4_DQSU_P_B/LPDDR4_DQS0P_B/DDR3_DQS2P/LPDDR3_DQS0P	256.29
B11	DDR_DQS0N_B/DDR4_DQSU_N_B/LPDDR4_DQS0N_B/DDR3_DQS2N/LPDDR3_DQS0N	242.83
A16	DDR_DQ8_B/DDR4_DQL0_B/LPDDR4_DQ8_B/DDR3_DQ24/LPDDR3_DQ18	285.48
B17	DDR_DQ9_B/DDR4_DQL2_B/LPDDR4_DQ9_B/DDR3_DQ25/LPDDR3_DQ19	255.55
A17	DDR_DQ10_B/DDR4_DQL4_B/LPDDR4_DQ10_B/DDR3_DQ26/LPDDR3_DQ22	277.32
B18	DDR_DQ11_B/DDR4_DQL6_B/LPDDR4_DQ11_B/DDR3_DQ27/LPDDR3_DQ23	273.54
B13	DDR_DQ12_B/DDR4_DQL7_B/LPDDR4_DQ12_B/DDR3_DQ28/LPDDR3_DQ16	264.40
A13	DDR_DQ13_B/DDR4_DQL5_B/LPDDR4_DQ13_B/DDR3_DQ29/LPDDR3_DQ17	285.09
D17	DDR_DQ14_B/DDR4_DQL1_B/LPDDR4_DQ14_B/DDR3_DQ30/LPDDR3_DQ20	194.36
B14	DDR_DQ15_B/DDR4_DQL3_B/LPDDR4_DQ15_B/DDR3_DQ31/LPDDR3_DQ21	258.98
E17	DDR_DM1_B/DDR4_DML_B/LPDDR4_DM1_B/DDR3_DM3/LPDDR3_DM2	176.52
B15	DDR_DQS1P_B/DDR4_DQSL_P_B/LPDDR4_DQS1P_B/DDR3_DQS3P/LPDDR3_DQS2P	268.35
A15	DDR_DQS1N_B/DDR4_DQSL_N_B/LPDDR4_DQS1N_B/DDR3_DQS3N/LPDDR3_DQS2N	264.99
P5	DDR_ECC_DQ0	155.46
M4	DDR_ECC_DQ1	165.35
M5	DDR_ECC_DQ2	130.79
R5	DDR_ECC_DQ3	153.43
M7	DDR_ECC_DQ4	93.64
R7	DDR_ECC_DQ5	135.56
P4	DDR_ECC_DQ6	201.25
R4	DDR_ECC_DQ7	179.34
P7	DDR_ECC_DM	119.85
P2	DDR_ECC_DQS_P	251.79
P1	DDR_ECC_DQS_N	264.37
B6	DDR4_A0/LPDDR4_CLKP_B/DDR3_A9/-/AC0	276.81
F5	DDR4_A1/-/DDR3_A2/-/AC1	215.83
B1	DDR4_A2/LPDDR4_A1_A/DDR3_A4/LPDDR3_A6/AC2	338.78
F4	DDR4_A3/LPDDR4_CKE1_A/DDR3_A3/-/AC3	250.62

Pin Number	Pin Name	Package Pin length(mil)
Part F		
D9	DDR4_A4/LPDDR4_A3_B/DDR3_BA1/LPDDR3_A3/AC4	194.10
B7	DDR4_A5/LPDDR4_A5_B/DDR3_A11/LPDDR3_A2/AC5	281.65
A7	DDR4_A6/LPDDR4_A1_B/DDR3_A13/LPDDR3_A1/AC6	310.88
A8	DDR4_A7/LPDDR4_ODT0_CA_B/DDR3_A8/-/AC7	278.67
C1	DDR4_A8/LPDDR4_ODT0_CA_A/DDR3_A6/LPDDR3_A9/AC8	325.81
A5	DDR4_A9/LPDDR4_CLKN_B/DDR3_A5/-/AC9	290.85
D6	DDR4_A10/LPDDR4_CKE0_B/DDR3_A10/-/AC10	218.38
C2	DDR4_A11/LPDDR4_A0_A/DDR3_A7/LPDDR3_A8/AC11	304.42
C4	DDR4_A12/LPDDR4_A3_A/DDR3_BA2/-/AC12	277.72
B8	DDR4_A13/LPDDR4_A0_B/DDR3_A14/LPDDR3_A0/AC13	249.65
C5	DDR4_A14_WEn/LPDDR4_A4_A/DDR3_A15/LPDDR3_A5/AC14	244.33
E4	DDR4_A15_CASn/LPDDR4_A2_A/DDR3_A0/-/AC15	217.54
D5	DDR4_A16_RASn/LPDDR4_A5_A/DDR3_RASn/LPDDR3_A7/AC16	232.08
E6	DDR4_ACTn/LPDDR4_CKE1_B/DDR3_CASn/-/AC17	208.13
E11	DDR4_BA0/LPDDR4_A2_B/DDR3_A1/-/AC18	152.87
E9	DDR4_BA1/LPDDR4_A4_B/DDR3_A12/LPDDR3_A4/AC19	138.75
F8	DDR4_BG0/LPDDR4_ODT1_CA_B/DDR3_WEn/-/AC20	153.63
F7	DDR4_BG1/LPDDR4_ODT1_CA_A/DDR3_BA0/-/AC21	144.48
B3	DDR4_CKE/LPDDR4_CKE0_A/DDR3_CKE/LPDDR3_CKE/AC22	312.78
B4	DDR4_CLKP/LPDDR4_CLKP_A/DDR3_CLKP/LPDDR3_CLKP/AC23	322.40
A4	DDR4_CLKN/LPDDR4_CLKN_A/DDR3_CLKN/LPDDR3_CLKN/AC24	313.78
A2	DDR4_CS0n/LPDDR4_CS0n_A/DDR3_ODT1/LPDDR3_ODT0/AC25	344.42
B2	DDR4_CS1n/LPDDR4_CS1n_A/DDR3_CS1n/LPDDR3_ODT1/AC26	316.41
E8	DDR4_ODT0/LPDDR4_CS1n_B/DDR3_ODT0/LPDDR3_CS1n/AC27	181.09
D8	DDR4_ODT1/LPDDR4_CS0n_B/DDR3_CS0n/LPDDR3_CS0n/AC28	223.57
F11	DDR4_RESETn/LPDDR4_RESETn/DDR3_RESETn/AC29	123.93
Part H	**VCCIO1 Domain**	
D18	I2C3_SDA_M0/UART3_RX_M0/CAN1_RX_M0/AUDIOPWM_LOUT_P/ACODEC_ADC_DATA/GPIO1_A0_u	177.56
E18	I2C3_SCL_M0/UART3_TX_M0/CAN1_TX_M0/AUDIOPWM_LOUT_N/ACODEC_ADC_CLK/GPIO1_A1_u	128.76
A19	I2S1_MCLK_M0/UART3_RTSn_M0/SCR_CLK/PCIE30X1_PERSTn_M2/GPIO1_A2_d	250.88
B19	I2S1_SCLK_TX_M0/UART3_CTSn_M0/SCR_IO/PCIE30X1_WAKEn_M2/ACODEC_DAC_CLK/GPIO1_A3_d	226.93
F18	I2S1_SCLK_RX_M0/UART4_RX_M0/PDM_CLK1_M0/SPDIF_TX_M0/GPIO1_A4_d	99.09
A20	I2S1_LRCK_TX_M0/UART4_RTSn_M0/SCR_RST/PCIE30X1_CLKREQn_M2/ACODEC_DAC_SYNC/GPIO1_A5_d	263.45
C20	I2S1_LRCK_RX_M0/UART4_TX_M0/PDM_CLK0_M0/AUDIOPWM_ROUT_P/GPIO1_A6_d	222.90
B20	I2S1_SDO0_M0/UART4_CTSn_M0/SCR_DET/AUDIOPWM_ROUT_N/ACODEC_DAC_DATAL/GPIO1_A7_d	230.95
D20	I2S1_SDO1_M0/I2S1_SDI3_M0/PDM_SDI3_M0/PCIE20_CLKREQn_M2/ACODEC_DAC_DATAR/GPIO1_B0_d	204.53
E20	I2S1_SDO2_M0/I2S1_SDI2_M0/PDM_SDI2_M0/PCIE20_WAKEn_M2/ACODEC_ADC_SYNC/GPIO1_B1_d	191.59
A21	I2S1_SDO3_M0/I2S1_SDI1_M0/PDM_SDI1_M0/PCIE20_PERSTn_M2/GPIO1_B2_d	263.45
B21	I2S1_SDI0_M0/PDM_SDI0_M0/GPIO1_B3_d	244.78
Part I	**VCCIO2 Domain**	
A24	EMMC_D0/FLASH_D0/GPIO1_B4_u	274.99
C21	EMMC_D1/FLASH_D1/GPIO1_B5_u	222.16
B24	EMMC_D2/FLASH_D2/GPIO1_B6_u	302.75
D21	EMMC_D3/FLASH_D3/GPIO1_B7_u	200.00
A25	EMMC_D4/FLASH_D4/GPIO1_C0_u	305.02
E21	EMMC_D5/FLASH_D5/GPIO1_C1_u	170.33
E22	EMMC_D6/FLASH_D6/GPIO1_C2_u	179.10
B25	EMMC_D7/FLASH_D7/GPIO1_C3_u	302.11
B22	EMMC_CMD/FLASH_WRn/GPIO1_C4_u	266.12
A23	EMMC_CLKOUT/FLASH_DQS/GPIO1_C5_d	282.31
A26	EMMC_DATA_STROBE/FSPI_CS1n/FLASH_CLE/GPIO1_C6_d	335.25
F20	EMMC_RSTn/FSPI_D2/FLASH_WPn/GPIO1_C7_d	163.07
A22	FSPI_CLK/FLASH_ALE/GPIO1_D0_d	294.87
C24	FSPI_D0/FLASH_RDY/GPIO1_D1_u	249.03
D23	FSPI_D1/FLASH_RDn/GPIO1_D2_u	225.32

Pin Number	Pin Name	Package Pin length(mil)
Part F		
C23	FSPI_CS0n/FLASH_CS0n/GPIO1_D3_u	267.75
A27	FSPI_D3/FLASH_CS1n/GPIO1_D4_u	320.42
Part J	**VCCIO3 Domain**	
J25	SDMMC0_D0/UART2_TX_M1/UART6_TX_M1/PWM8_M1/GPIO1_D5_u	187.90
J24	SDMMC0_D1/UART2_RX_M1/UART6_RX_M1/PWM9_M1/GPIO1_D6_u	129.06
H26	SDMMC0_D2/ARMJTAG_TCK/UART5_CTSn_M0/GPIO1_D7_u	207.15
J23	SDMMC0_D3/ARMJTAG_TMS/UART5_RTSn_M0/GPIO2_A0_u	119.63
H27	SDMMC0_CMD/PWM10_M1/UART5_RX_M0/CAN0_TX_M1/GPIO2_A1_u	234.14
H28	SDMMC0_CLK/TEST_CLKOUT/UART5_TX_M0/CAN0_RX_M1/GPIO2_A2_d	238.25
Part K	**VCCIO4 Domain**	
E27	SDMMC1_D0/GMAC0_RXD2/UART6_RX_M0/GPIO2_A3_u	254.44
E28	SDMMC1_D1/GMAC0_RXD3/UART6_TX_M0/GPIO2_A4_u	274.89
B28	SDMMC1_D2/GMAC0_RXCLK/UART7_RX_M0/GPIO2_A5_u	341.80
C27	SDMMC1_D3/GMAC0_TXD2/UART7_TX_M0/GPIO2_A6_u	312.32
C28	SDMMC1_CMD/GMAC0_TXD3/UART9_RX_M0/GPIO2_A7_u	299.12
D27	SDMMC1_CLK/GMAC0_TXCLK/UART9_TX_M0/GPIO2_B0_d	257.34
D26	SDMMC1_PWREN/I2C4_SDA_M1/UART8_RTSn_M0/CAN2_RX_M1/GPIO2_B1_d	248.12
E25	SDMMC1_DET/I2C4_SCL_M1/UART8_CTSn_M0/CAN2_TX_M1/GPIO2_B2_u	220.16
F28	GMAC0_TXD0/UART1_RX_M0/GPIO2_B3_u	249.10
G27	GMAC0_TXD1/UART1_TX_M0/GPIO2_B4_u	220.84
G28	GMAC0_TXEN/UART1_RTSn_M0/SPI1_CLK_M0/GPIO2_B5_u	246.50
F27	GMAC0_RXD0/UART1_CTSn_M0/SPI1_MISO_M0/GPIO2_B6_u	290.81
H25	I2S2_SCLK_RX_M0/GMAC0_RXD1/UART6_RTSn_M0/SPI1_MOSI_M0/GPIO2_B7_d	173.26
F24	I2S2_LRCK_RX_M0/GMAC0_RXDV_CRS/UART6_CTSn_M0/SPI1_CS0_M0/GPIO2_C0_d	171.29
G23	I2S2_MCLK_M0/ETH0_REFCLKO_25M/UART7_RTSn_M0/SPI2_CLK_M0/GPIO2_C1_d	119.74
F25	I2S2_SCLK_TX_M0/GMAC0_MCLKINOUT/UART7_CTSn_M0/SPI2_MISO_M0/GPIO2_C2_d	195.93
H24	I2S2_LRCK_TX_M0/GMAC0_MDC/UART9_RTSn_M0/SPI2_MOSI_M0/GPIO2_C3_d	143.41
H23	I2S2_SDO_M0/GMAC0_MDIO/UART9_CTSn_M0/SPI2_CS0_M0/GPIO2_C4_d	120.81
F26	I2S2_SDI_M0/GMAC0_RXER/UART8_TX_M0/SPI2_CS1_M0/GPIO2_C5_d	211.90
E26	CLK32K_OUT1/UART8_RX_M0/SPI1_CS1_M0/GPIO2_C6_d	234.29
Part L	**VCCIO5 Domain**	
AG6	LCDC_D0/VOP_BT656_D0_M0/SPI0_MISO_M1/PCIE20_CLKREQn_M1/I2S1_MCLK_M2/GPIO2_D0_d	327.56
AD7	LCDC_D1/VOP_BT656_D1_M0/SPI0_MOSI_M1/PCIE20_WAKEn_M1/I2S1_SCLK_TX_M2/GPIO2_D1_d	253.40
AC8	LCDC_D2/VOP_BT656_D2_M0/SPI0_CS0_M1/PCIE30X1_CLKREQn_M1/I2S1_LRCK_TX_M2/GPIO2_D2_d	193.17
AC7	LCDC_D3/VOP_BT656_D3_M0/SPI0_CLK_M1/PCIE30X1_WAKEn_M1/I2S1_SDI0_M2/GPIO2_D3_d	217.33
AF5	LCDC_D4/VOP_BT656_D4_M0/SPI2_CS1_M1/PCIE30X2_CLKREQn_M1/I2S1_SDI1_M2/GPIO2_D4_d	313.13
AF6	LCDC_D5/VOP_BT656_D5_M0/SPI2_CS0_M1/PCIE30X2_WAKEn_M1/I2S1_SDI2_M2/GPIO2_D5_d	298.12
AD6	LCDC_D6/VOP_BT656_D6_M0/SPI2_MOSI_M1/PCIE30X2_PERSTn_M1/I2S1_SDI3_M2/GPIO2_D6_d	261.99
AH5	LCDC_D7/VOP_BT656_D7_M0/SPI2_MISO_M1/UART8_TX_M1/I2S1_SDO0_M2/GPIO2_D7_d	364.87
AH4	LCDC_CLK/VOP_BT656_CLK_M0/SPI2_CLK_M1/UART8_RX_M1/I2S1_SDO1_M2/GPIO3_A0_d	367.52
AB8	LCDC_D8/VOP_BT1120_D0/SPI1_CS0_M1/PCIE30X1_PERSTn_M1/SDMMC2_D0_M1/GPIO3_A1_d	170.82
AE5	LCDC_D9/VOP_BT1120_D1/GMAC1_TXD2_M0/I2S3_MCLK_M0/SDMMC2_D1_M1/GPIO3_A2_d	286.55
AG4	LCDC_D10/VOP_BT1120_D2/GMAC1_TXD3_M0/I2S3_SCLK_M0/SDMMC2_D2_M1/GPIO3_A3_d	336.56
AF4	LCDC_D11/VOP_BT1120_D3/GMAC1_RXD2_M0/I2S3_LRCK_M0/SDMMC2_D3_M1/GPIO3_A4_d	317.96
AH3	LCDC_D12/VOP_BT1120_D4/GMAC1_RXD3_M0/I2S3_SDO_M0/SDMMC2_CMD_M1/GPIO3_A5_d	372.61
AG3	LCDC_D13/VOP_BT1120_CLK/GMAC1_TXCLK_M0/I2S3_SDI_M0/SDMMC2_CLK_M1/GPIO3_A6_d	342.11
AH2	LCDC_D14/VOP_BT1120_D5/GMAC1_RXCLK_M0/SDMMC2_DET_M1/GPIO3_A7_d	380.47
AG2	LCDC_D15/VOP_BT1120_D6/ETH1_REFCLKO_25M_M0/SDMMC2_PWREN_M1/GPIO3_B0_d	359.62
AG1	LCDC_D16/VOP_BT1120_D7/GMAC1_RXD0_M0/UART4_RX_M1/PWM8_M0/GPIO3_B1_d	370.52
AF2	LCDC_D17/VOP_BT1120_D8/GMAC1_RXD1_M0/UART4_TX_M1/PWM9_M0/GPIO3_B2_d	339.37
AF1	LCDC_D18/VOP_BT1120_D9/GMAC1_RXDV_CRS_M0/I2C5_SCL_M0/PDM_SDI0_M2/GPIO3_B3_d	358.40
AE1	LCDC_D19/VOP_BT1120_D10/GMAC1_RXER_M0/I2C5_SDA_M0/PDM_SDI1_M2/GPIO3_B4_d	342.28
AE2	LCDC_D20/VOP_BT1120_D11/GMAC1_TXD0_M0/I2C3_SCL_M1/PWM10_M0/GPIO3_B5_d	320.64
AE3	LCDC_D21/VOP_BT1120_D12/GMAC1_TXD1_M0/I2C3_SDA_M1/PWM11_IR_M0/GPIO3_B6_d	280.30
AD4	LCDC_D22/PWM12_M0/GMAC1_TXEN_M0/UART3_TX_M1/PDM_SDI2_M2/GPIO3_B7_d	254.43

Pin Number	Pin Name	Package Pin length(mil)
Part F		
AD2	LCDC_D23/PWM13_M0/GMAC1_MCLKINOUT_M0/UART3_RX_M1/PDM_SDI3_M2/GPIO3_C0_d	281.93
AD1	LCDC_HSYNC/VOP_BT1120_D13/SPI1_MOSI_M1/PCIE20_PERSTn_M1/I2S1_SDO2_M2/GPIO3_C1_d	304.17
AA7	LCDC_VSYNC/VOP_BT1120_D14/SPI1_MISO_M1/UART5_TX_M1/I2S1_SDO3_M2/GPIO3_C2_d	127.37
AC4	LCDC_DEN/VOP_BT1120_D15/SPI1_CLK_M1/UART5_RX_M1/I2S1_SCLK_RX_M2/GPIO3_C3_d	226.39
AC3	PWM14_M0/VOP_PWM_M1/GMAC1_MDC_M0/UART7_TX_M1/PDM_CLK1_M2/GPIO3_C4_d	250.96
AC2	PWM15_IR_M0/SPDIF_TX_M1/GMAC1_MDIO_M0/UART7_RX_M1/I2S1_LRCK_RX_M2/GPIO3_C5_d	269.04
Part M	**VCCIO6 Domain**	
AC5	CIF_D0/EBC_SDDO0/SDMMC2_D0_M0/I2S1_MCLK_M1/VOP_BT656_D0_M1/GPIO3_C6_d	243.33
AA6	CIF_D1/EBC_SDDO1/SDMMC2_D1_M0/I2S1_SCLK_TX_M1/VOP_BT656_D1_M1/GPIO3_C7_d	171.49
AB5	CIF_D2/EBC_SDDO2/SDMMC2_D2_M0/I2S1_LRCK_TX_M1/VOP_BT656_D2_M1/GPIO3_D0_d	197.65
AB1	CIF_D3/EBC_SDDO3/SDMMC2_D3_M0/I2S1_SDO0_M1/VOP_BT656_D3_M1/GPIO3_D1_d	304.22
Y7	CIF_D4/EBC_SDDO4/SDMMC2_CMD_M0/I2S1_SDI0_M1/VOP_BT656_D4_M1/GPIO3_D2_d	144.15
AC1	CIF_D5/EBC_SDDO5/SDMMC2_CLK_M0/I2S1_SDI1_M1/VOP_BT656_D5_M1/GPIO3_D3_d	337.43
AA1	CIF_D6/EBC_SDDO6/SDMMC2_DET_M0/I2S1_SDI2_M1/VOP_BT656_D6_M1/GPIO3_D4_d	300.61
AA5	CIF_D7/EBC_SDDO7/SDMMC2_PWREN_M0/I2S1_SDI3_M1/VOP_BT656_D7_M1/GPIO3_D5_d	190.00
Y6	CIF_D8/EBC_SDDO8/GMAC1_TXD2_M1/UART1_TX_M1/PDM_CLK0_M1/GPIO3_D6_d	171.09
Y5	CIF_D9/EBC_SDDO9/GMAC1_TXD3_M1/UART1_RX_M1/PDM_SDI0_M1/GPIO3_D7_d	188.71
AA3	CIF_D10/EBC_SDDO10/GMAC1_TXCLK_M1/PDM_CLK1_M1/GPIO4_A0_d	249.81
AA2	CIF_D11/EBC_SDDO11/GMAC1_RXD2_M1/PDM_SDI1_M1/GPIO4_A1_d	277.20
Y4	CIF_D12/EBC_SDDO12/GMAC1_RXD3_M1/UART7_TX_M2/PDM_SDI2_M1/GPIO4_A2_d	248.79
Y3	CIF_D13/EBC_SDDO13/GMAC1_RXCLK_M1/UART7_RX_M2/PDM_SDI3_M1/GPIO4_A3_d	243.86
Y2	CIF_D14/EBC_SDDO14/GMAC1_TXD0_M1/UART9_TX_M2/I2S2_LRCK_TX_M1/GPIO4_A4_d	284.31
Y1	CIF_D15/EBC_SDDO15/GMAC1_TXD1_M1/UART9_RX_M2/I2S2_LRCK_RX_M1/GPIO4_A5_d	287.72
W2	ISP_FLASHTRIGOUT/EBC_SDCE0/GMAC1_TXEN_M1/SPI3_CS0_M0/I2S1_SCLK_RX_M1/GPIO4_A6_d	281.48
W1	CAM_CLKOUT0/EBC_SDCE1/GMAC1_RXD0_M1/SPI3_CS1_M0/I2S1_LRCK_RX_M1/GPIO4_A7_d	287.26
V7	CAM_CLKOUT1/EBC_SDCE2/GMAC1_RXD1_M1/SPI3_MISO_M0/I2S1_SDO1_M1/GPIO4_B0_d	150.89
V2	ISP_PRELIGHT_TRIG/EBC_SDCE3/GMAC1_RXDV_CRS_M1/I2S1_SDO2_M1/GPIO4_B1_d	269.66
V4	I2C4_SDA_M0/EBC_VCOM/GMAC1_RXER_M1/SPI3_MOSI_M0/I2S2_SDI_M1/GPIO4_B2_d	207.82
V1	I2C4_SCL_M0/EBC_GDOE/ETH1_REFCLKO_25M_M1/SPI3_CLK_M0/I2S2_SDO_M1/GPIO4_B3_d	289.86
V6	I2C2_SDA_M1/EBC_GDSP/CAN2_RX_M0/ISP_FLASH_TRIGIN/VOP_BT656_CLK_M1/GPIO4_B4_d	168.72
V5	I2C2_SCL_M1/EBC_SDSHR/CAN2_TX_M0/I2S1_SDO3_M1/GPIO4_B5_d	205.71
U5	CIF_HREF/EBC_SDLE/GMAC1_MDC_M1/UART1_RTSn_M1/I2S2_MCLK_M1/GPIO4_B6_d	152.40
U4	CIF_VSYNC/EBC_SDOE/GMAC1_MDIO_M1/I2S2_SCLK_TX_M1/GPIO4_B7_d	233.12
U3	CIF_CLKOUT/EBC_GDCLK/PWM11_IR_M1/GPIO4_C0_d	222.70
U2	CIF_CLKIN/EBC_SDCLK/GMAC1_MCLKINOUT_M1/UART1_CTSn_M1/I2S2_SCLK_RX_M1/GPIO4_C1_d	243.75
Part N	**VCCIO7 Domain**	
AF8	PWM14_M1/SPI3_CLK_M1/CAN1_RX_M1/PCIE30X2_CLKREQn_M2/I2S3_MCLK_M1/GPIO4_C2_d	295.62
AA11	PWM15_IR_M1/SPI3_MOSI_M1/CAN1_TX_M1/PCIE30X2_WAKEn_M2/I2S3_SCLK_M1/GPIO4_C3_d	141.35
AH7	EDP_HPDIN_M0/SPDIF_TX_M2/SATA2_ACT_LED/PCIE30X2_PERSTn_M2/I2S3_LRCK_M1/GPIO4_C4_d	355.60
AD8	PWM12_M1/SPI3_MISO_M1/SATA1_ACT_LED/UART9_TX_M1/I2S3_SDO_M1/GPIO4_C5_d	250.59
AE8	PWM13_M1/SPI3_CS0_M1/SATA0_ACT_LED/UART9_RX_M1/I2S3_SDI_M1/GPIO4_C6_d	274.62
AG8	HDMITX_SCL/I2C5_SCL_M1/GPIO4_C7_u	326.21
AG7	HDMITX_SDA/I2C5_SDA_M1/GPIO4_D0_u	328.77
AH6	HDMITX_CEC_M0/SPI3_CS1_M1/GPIO4_D1_u	358.67
AB9	GPIO4_D2_d	167.55
Part P	**MIPI_CSI_RX**	
AG12	MIPI_CSI_RX_D0P	317.69
AH12	MIPI_CSI_RX_D0N	326.25
AG11	MIPI_CSI_RX_D1P	328.53
AH11	MIPI_CSI_RX_D1N	332.80
AE11	MIPI_CSI_RX_D2P	253.67
AD11	MIPI_CSI_RX_D2N	259.27
AD9	MIPI_CSI_RX_D3P	269.86
AE9	MIPI_CSI_RX_D3N	275.61
AG10	MIPI_CSI_RX_CLK0P	338.20

Pin Number	Pin Name	Package Pin length(mil)
Part F		
AH10	MIPI_CSI_RX_CLK0N	342.43
AG9	MIPI_CSI_RX_CLK1P	348.46
AH9	MIPI_CSI_RX_CLK1N	351.90
Part Q	**HDMI2.0 TX**	
AG22	HDMI_TX_D2P	339.16
AH22	HDMI_TX_D2N	339.51
AG21	HDMI_TX_D1P	332.57
AH21	HDMI_TX_D1N	330.13
AG20	HDMI_TX_D0P	321.70
AH20	HDMI_TX_D0N	318.50
AH19	HDMI_TX_CLKP	322.21
AG19	HDMI_TX_CLKN	307.11
Part R	MIPI_DSI_TX0/LVDS_TX0	
AH17	MIPI_DSI_TX0_D0P/LVDS_TX0_D0P	297.41
AG17	MIPI_DSI_TX0_D0N/LVDS_TX0_D0N	303.23
AH16	MIPI_DSI_TX0_D1P/LVDS_TX0_D1P	303.94
AG16	MIPI_DSI_TX0_D1N/LVDS_TX0_D1N	307.23
AH14	MIPI_DSI_TX0_D2P/LVDS_TX0_D2P	322.34
AG14	MIPI_DSI_TX0_D2N/LVDS_TX0_D2N	326.74
AH13	MIPI_DSI_TX0_D3P/LVDS_TX0_D3P	349.25
AG13	MIPI_DSI_TX0_D3N/LVDS_TX0_D3N	353.77
AH15	MIPI_DSI_TX0_CLKP/LVDS_TX0_CLKP	310.29
AG15	MIPI_DSI_TX0_CLKN/LVDS_TX0_CLKN	309.78
Part S	**MIPI_DSI_TX1**	
AD18	MIPI_DSI_TX1_D0P	271.94
AE18	MIPI_DSI_TX1_D0N	277.06
AD17	MIPI_DSI_TX1_D1P	227.71
AC17	MIPI_DSI_TX1_D1N	220.39
AD14	MIPI_DSI_TX1_D2P	196.62
AC14	MIPI_DSI_TX1_D2N	197.90
AD12	MIPI_DSI_TX1_D3P	226.07
AE12	MIPI_DSI_TX1_D3N	237.62
AD15	MIPI_DSI_TX1_CLKP	219.65
AE15	MIPI_DSI_TX1_CLKN	224.98
Part T	**EDP TX**	
J28	EDP_TX_D0P	238.75
K27	EDP_TX_D0N	250.22
K28	EDP_TX_D1P	220.35
L27	EDP_TX_D1N	228.57
L28	EDP_TX_D2P	225.33
M27	EDP_TX_D2N	234.58
M28	EDP_TX_D3P	229.23
N27	EDP_TX_D3N	234.21
L25	EDP_TX_AUXP	136.31
M25	EDP_TX_AUXN	138.73
Part U	**USB3.0 OTG0/USB3.0 HOST1/SATA/QSGMII/PCIe2.0**	
P27	USB3_OTG0_DP	222.12
P28	USB3_OTG0_DM	221.43
P24	USB3_HOST1_DP	141.39
P25	USB3_HOST1_DM	145.46
T28	USB3_OTG0_SSTXP/SATA0_TXP	269.61
T27	USB3_OTG0_SSTXN/SATA0_TXN	276.86
R28	USB3_OTG0_SSRXP/SATA0_RXP	219.73
R27	USB3_OTG0_SSRXN/SATA0_RXN	205.59
V28	USB3_HOST1_SSTXP/SATA1_TXP/QSGMII_TXP_M0	269.00

Pin Number	Pin Name	Package Pin length(mil)
Part F		
V27	USB3_HOST1_SSTXN/SATA1_TXN/QSGMII_TXN_M0	267.24
U28	USB3_HOST1_SSRXP/SATA1_RXP/QSGMII_RXP_M0	236.20
U27	USB3_HOST1_SSRXN/SATA1_RXN/QSGMII_RXN_M0	238.12
W27	PCIE20_TXP/SATA2_TXP/QSGMII_TXP_M1	274.94
W28	PCIE20_TXN/SATA2_TXN/QSGMII_TXN_M1	284.38
Y27	PCIE20_RXP/SATA2_RXP/QSGMII_RXP_M1	277.64
Y28	PCIE20_RXN/SATA2_RXN/QSGMII_RXN_M1	286.61
V24	PCIE20_REFCLKP	161.44
V25	PCIE20_REFCLKN	168.85
R24	MULTI_PHY0_REFCLKP	134.71
R25	MULTI_PHY0_REFCLKN	147.75
U25	MULTI_PHY1_REFCLKP	161.32
U24	MULTI_PHY1_REFCLKN	161.10
Part V	**USB2.0 HOST2/USB2.0 HOST3**	
R2	USB2_HOST2_DP	258.03
R1	USB2_HOST2_DM	252.47
T2	USB2_HOST3_DP	258.76
T1	USB2_HOST3_DM	254.60
Part W	**PCIe3.0**	
AA28	PCIE30_TX0P	276.89
AA27	PCIE30_TX0N	282.72
AB28	PCIE30_TX1P	300.14
AB27	PCIE30_TX1N	292.78
AC28	PCIE30_RX0P	296.60
AC27	PCIE30_RX0N	300.62
AD28	PCIE30_RX1P	336.44
AD27	PCIE30_RX1N	329.37
Y25	PCIE30_REFCLKP_IN	260.47
AA25	PCIE30_REFCLKN_IN	246.94