Technical Reference Manual for the Pixel Array Control Monitor and Network (Pac-Man) Card

November 23, 2020

1 Signal Mapping

Logical	Trenz	Pin	Note
TILE6_POSI_0	B33_L7_P	JB2-12	EVAL
TILE6_POSI_1	$B33_L7_N$	JB2-14	EVAL
$TILE6_POSI_2$	B33_L8_P	JB2-16	EVAL
TILE6_POSI_3	B33_L8_N	JB2-18	EVAL
TILE6_PISO_0	B33_L11_P	JB2-22	EVAL
TILE6_PISO_1	B33_L11_N	JB2-24	EVAL
TILE6_PISO_2	B33_L12_P	JB2-26	EVAL
TILE6_PISO_3	B33_L12_N	JB2-28	EVAL
TILE7_POSI_0	B33_L17_P	JB2-32	
TILE7_POSI_1	B33_L17_N	JB2-34	
TILE7_POSI_2	B33_L18_P	JB2-36	
TILE7_POSI_3	B33_L18_N	JB2-38	
TILE7_PISO_0	B13_L7_P	JB2-42	
TILE7_PISO_1	$B13_L7_N$	JB2-44	
TILE7_PISO_2	B13_L8_P	JB2-46	
TILE7_PISO_3	$B13_L8_N$	JB2-48	
TILE4_POSI_0	B13_L11_P	JB2-52	
TILE4_POSI_1	B13_L11_N	JB2-54	
TILE4_POSI_2	B13_L9_P	JB2-56	
TILE4_POSI_3	B13_L9_N	JB2-58	
TILE4_PISO_0	B13_L20_P	JB2-62	
TILE4_PISO_1	$B13_L20_N$	JB2-64	
TILE4_PISO_2	B13_L17_P	JB2-66	
TILE4_PISO_3	$B13_L17_N$	JB2-68	
TILE1_POSI_0	B13_L16_P	JB2-72	
TILE1_POSI_1	B13_L16_N	JB2-74	
TILE1_POSI_2	B13_L18_P	JB2-76	
TILE1_POSI_3	B13_L18_N	JB2-78	
TILE1_PISO_0	B13_L15_P	JB2-82	
TILE1_PISO_1	B13_L15_N	JB2-84	
TILE1_PISO_2	B13_L21_P	JB2-86	
TILE1_PISO_3	B13_L21_N	JB2-88	

T: 1	Т	Pin	Note
Logical	Trenz		Note
TILE3_POSI_3			
TILE3_POSI_2			
TILE3_POSI_1	B33_L14_P	JB2-25	
TILE3_POSI_0	B33_L14_N	JB2-27	
TILE3_PISO_3	B13_L5_P	JB2-31	_
TILE3_PISO_2	$B13_L5_N$	JB2-33	
TILE3_PISO_1	B13_L6_P	JB2-35	
TILE3_PISO_0	B13_L6_N	JB2-37	
TILE2_POSI_3	B13_L1_P	JB2-41	
TILE2_POSI_2	B13_L1_N	JB2-43	
TILE2_POSI_1	B13_L12_P	JB2-45	
TILE2_POSI_0	B13_L12_N	JB2-47	
TILE2_PISO_3	B13_L14_P	JB2-51	
TILE2_PISO_2	$B13_L14_N$	JB2-53	
TILE2_PISO_1	B13_L13_P	JB2-55	
TILE2_PISO_0	B13_L13_N	JB2-57	
TILE5_POSI_3	B13_L4_P	JB2-61	
TILE5_POSI_2	$B13_L4_N$	JB2-63	
TILE5_POSI_1	B13_L3_P	JB2-65	
TILE5_POSI_0	B13_L3_N	JB2-67	
TILE5_PISO_3	B13_L10_P	JB2-71	
TILE5_PISO_2	B13_L10_N	JB2-73	
TILE5_PISO_1	B13_L2_P	JB2-75	
TILE5_PISO_0	B13_L2_N	JB2-77	
TILE8_POSI_3	B13_L23_P	JB2-81	
TILE8_POSI_2	B13_L23_N	JB2-83	
TILE8_POSI_1	B13_L24_P	JB2-85	
TILE8_POSI_0	B13_L24_N	JB2-87	
TILE8_PISO_3	B13_L19_P	JB2-91	
TILE8_PISO_2	B13_L19_N	JB2-93	
TILE8_PISO_1	B13_L22_P	JB2-95	
TILE8_PISO_0	B13_L22_N	JB2-97	

TILE6.SYNC.DN B35 L16.N JB1-32 EVAL TILE6.SYNC.DP B35 L16.P JB1-34 EVAL TILE6.TRIG.DN B35 L24.N JB1-36 EVAL TILE6.CLK.DN B35 L14.P JB1-38 EVAL TILE6.CLK.DD B35 L18.P JB1-44 EVAL TILE7.SYNC.DN B35 L15.N JB1-46 EVAL TILE7.SYNC.DP B35 L15.N JB1-46 EVAL TILE7.TRIG.DN B35 L12.N JB1-50 ITILE7.TRIG.DN TILE7.CLK.DN B35 L17.P JB1-52 ITILE7.CLK.DN TILE4.SYNC.DN B35 L17.P JB1-58 ITILE4.SYNC.DN TILE4.SYNC.DN B35 L11.N JB1-60 ITILE4.TRIG.DN B35 L14.N JB1-60 TILE4.TRIG.DN B35 L14.N JB1-60 ITILE4.TRIG.DN B35 L14.N JB1-60 TILE1.SYNC.DN B35 L14.N JB1-70 ITILE1.SYNC.DN B35 L14.N JB1-70 TILE1.TRIG.DN B35 L12.N JB1-78 ITILE1.TRIG.DN B35 L19.N JB1-78 TILE3.CLK.DN B	Logical	Trenz	Pin	Note
TILE6.SYNC.DP B35.L16.P JB1-34 EVAL TILE6.TRIG.DN B35.L24.N JB1-36 EVAL TILE6.CRICADP B35.L18.P JB1-38 EVAL TILE6.CLK.DN B35.L18.P JB1-44 EVAL TILE7.SYNC.DN B35.L15.N JB1-46 EVAL TILE7.SYNC.DP B35.L15.N JB1-46 TUA TILE7.TRIG.DN B35.L22.N JB1-50 TUA TILE7.CLK.DP B35.L12.P JB1-52 TUA TILE7.CLK.DP B35.L17.P JB1-52 TUA TILE4.SYNC.DN B35.L17.P JB1-52 TUA TILE4.SYNC.DN B35.L13.N JB1-60 TUA TILE4.TRIG.DN B35.L14.P JB1-68 TUA TILE4.CLK.DP B35.L14.P JB1-68 TUA TILE1.SYNC.DN B35.L14.P JB1-68 TUA TILE1.SYNC.DN B35.L12.N JB1-78 TUA TILE1.SYNC.DN B35.L12.P JB1-78 TUA TILE1.CLK.DP B35.L12.P JB1-78				
TILE6.TRIG.DN B35.L24.N JB1-38 EVAL TILE6.CLK.DN B35.L18.N JB1-42 EVAL TILE6.CLK.DN B35.L18.N JB1-42 EVAL TILE6.CLK.DN B35.L18.N JB1-44 EVAL TILE7.SYNC.DN B35.L15.N JB1-48 EVAL TILE7.TRIG.DN B35.L12.N JB1-50 ILEG.CLK.DN TILE7.CLK.DN B35.L17.N JB1-50 ILEG.CLK.DR TILE4.SYNC.DN B35.L17.N JB1-60 ILEG.CLK.DR TILE4.SYNC.DN B35.L13.N JB1-62 ILEG.CLK.DR TILE4.TRIG.DN B35.L14.N JB1-66 ILEG.CLK.DR TILE4.TRIG.DN B35.L14.N JB1-68 ILEG.CLK.DR TILE4.CLK.DN B35.L14.N JB1-70 ILEG.CLK.DR TILE1.SYNC.DN B35.L12.N JB1-70 ILEG.CLK.DR TILE1.SYNC.DP B35.L12.N JB1-70 ILLEG.CLK.DR TILE1.CLK.DN B35.L12.N JB1-82 ILLEG.CLK.DR TILE3.CLK.DN B35.L19.N JB1-37 ILLEG.CLK.DR				
TILE6.CIK.DIP B35.L12.HP JB1-42 EVAL TILE6.CIK.DP B35.L18.N JB1-42 EVAL TILE6.CIK.DP B35.L18.P JB1-44 EVAL TILE7.SYNC.DP B35.L15.P JB1-48 FUAL TILE7.TRIG.DN B35.L12.N JB1-50 FUAL TILE7.CIK.DN B35.L12.P JB1-52 JB1-60 TILE7.CIK.DN B35.L17.P JB1-58 JB1-60 TILE4.SYNC.DN B35.L13.N JB1-60 JB1-60 TILE4.SYNC.DN B35.L13.N JB1-60 JB1-60 TILE4.TRIG.DN B35.L14.P JB1-60 JB1-60 TILE4.TRIG.DN B35.L14.P JB1-60 JB1-60 TILE4.TRIG.DN B35.L14.P JB1-60 JB1-60 TILE4.TRIG.DN B35.L14.P JB1-60 JB1-60 TILE1.SYNC.DN B35.L12.N JB1-72 JB1-60 TILE1.TRIG.DN B35.L12.N JB1-76 JB1-78 TILE1.TRIG.DN B35.L12.N JB1-76 JB1-78 TILE3.CK.DN B35.L10				
TILE6.CLK.DN B35.L18.N JB1-44 EVAL TILE7.SYNC.DN B35.L18.P JB1-44 EVAL TILE7.SYNC.DP B35.L15.N JB1-48 FURD TILE7.TRIG.DN B35.L12.P JB1-50 JB1-50 TILE7.CLK.DN B35.L12.P JB1-52 JB1-52 TILE7.CLK.DN B35.L13.N JB1-66 JB1-62 TILE4.SYNC.DP B35.L13.N JB1-60 JB1-62 TILE4.SYNC.DP B35.L14.N JB1-66 JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 JB1-62 TILE4.TRIG.DP B35.L14.N JB1-68 JB1-68 TILE4.CLK.DN B35.L14.N JB1-68 JB1-68 TILE4.CLK.DP B35.L14.N JB1-70 JB1-68 TILE1.SYNC.DP B35.L12.P JB1-78 JB1-72 TILE1.SYNC.DP B35.L12.P JB1-78 JB1-78 TILE1.CLK.DP B35.L12.P JB1-89 non-contiguous TILE3.CLK.DP B35.L19.N JB1-39 non-contiguous TILE3.TRIG.DP				
TILE6.CLK.DP B35.L18.P JB1-46 EVAL TILE7.SYNC.DP B35.L15.N JB1-46 ILE7.TRIG.DN B35.L15.P JB1-48 ILE7.TRIG.DN B35.L12.N JB1-50 ILE7.TRIG.DN B35.L12.P JB1-52 ILE7.CLK.DN B35.L17.N JB1-56 ILE7.CLK.DN B35.L17.P JB1-58 ILE7.CLK.DN B35.L13.N JB1-60 ILE4.SYNC.DN B35.L13.N JB1-60 ILE4.SYNC.DN B35.L14.N JB1-66 ILE4.SYNC.DN B35.L14.N JB1-66 ILE4.CLK.DN B35.L14.N JB1-68 ILE4.CLK.DN B35.L14.N JB1-70 ILE4.CLK.DN B35.L14.N JB1-70 ILE4.CLK.DN B35.L14.N JB1-72 ILE4.CLK.DN B35.L12.N JB1-82 ILE4.CLK.DN B35.L19.N JB1-83 INOn-contiguous ILE4.CLK.DN				
TILE7.SYNC.DN B35.L15.N JB1-46 TILE7.TRIG.DN B35.L15.P JB1-50 TILE7.TRIG.DP B35.L22.N JB1-50 TILE7.CLK.DN B35.L12.P JB1-52 TILE7.CLK.DP B35.L17.P JB1-56 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DP B35.L14.N JB1-66 TILE4.CLK.DN B35.L14.N JB1-70 TILE4.CLK.DN B35.L14.P JB1-78 TILE4.CLK.DN B35.L12.N JB1-78 TILE1.SYNC.DN B35.L12.P JB1-78 TILE1.SYNC.DN B35.L12.P JB1-78 TILE1.TRIG.DN B35.L12.P JB1-82 TILE1.CLK.DP B35.L12.P JB1-82 TILE1.CLK.DP B35.L19.N JB1-99 non-contiguous TILE3.CLK.DN B35.L19.N JB1-99 non-contiguous TILE3.TRIG.DN B35.L19.N JB1-39 non-contiguous TILE3.SYNC.DN B35.L2.N JB1-49 non-contiguous <t< td=""><td></td><td></td><td></td><td></td></t<>				
TILE7.SYNC.DP B35.L15.P JB1-50 TILE7.TRIG.DN B35.L22.N JB1-50 TILE7.CLK.DN B35.L22.P JB1-52 TILE7.CLK.DN B35.L17.N JB1-56 TILE7.CLK.DP B35.L17.P JB1-58 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-68 TILE4.CLK.DN B35.L14.N JB1-70 TILE4.CLK.DN B35.L14.P JB1-78 TILE1.SYNC.DN B35.L12.N JB1-78 TILE1.SYNC.DN B35.L12.P JB1-78 TILE1.SYNC.DN B35.L12.P JB1-78 TILE1.TRIG.DN B35.L12.P JB1-82 TILE1.TRIG.DN B35.L12.P JB1-82 TILE3.CLK.DN B35.L19.P JB1-99 non-contiguous TILE3.CLK.DN B35.L19.P JB1-37 non-contiguous TILE3.TRIG.DN B35.L19.P JB1-39 non-contiguous TILE3.TRIG.DN B35.L2.N JB1-41 non-contiguous <				EVAL
TILE7.TRIG.DN B35.L22.N JB1-52 TILE7.CLK.DN B35.L17.N JB1-56 TILE7.CLK.DP B35.L17.P JB1-58 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.TRIG.DP B35.L14.N JB1-68 TILE4.CLK.DN B35.L14.N JB1-70 TILE1.SYNC.DN B35.L12.N JB1-72 TILE1.SYNC.DN B35.L12.N JB1-72 TILE1.SYNC.DN B35.L12.N JB1-78 TILE1.TRIG.DN B35.L12.N JB1-78 TILE1.TRIG.DN B35.L12.N JB1-82 TILE1.CLK.DN B35.L19.N JB1-89 TILE3.CLK.DN B35.L19.N JB1-99 TILE3.CLK.DN B35.L10.N JB1-35 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DN B35.L9.N JB1-49 TILE2.TRIG.DN B35.L2.N JB1-47 TILE2.TRIG.DN B35.L3.N JB1-55 TILE2.TRIG.DN				
TILE7.CKLDN B35.L12.P. JB1-56 TILE7.CLK.DP B35.L17.N JB1-56 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.N JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.TRIG.DP B35.L14.N JB1-70 TILE4.CLK.DN B35.L14.N JB1-70 TILE4.CLK.DP B35.L12.N JB1-78 TILE1.SYNC.DP B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.N JB1-76 TILE1.TRIG.DN B35.L12.N JB1-82 TILE1.TRIG.DN B35.L12.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-99 non-contiguous TILE3.CLK.DP B35.L10.N JB1-35 non-contiguous TILE3.TRIG.DN B35.L9.N JB1-37 JB1-37 TILE3.TRIG.DN B35.L9.N JB1-45 JB1-45 TILE2.TRIG.DN B35.L2.N JB1-45 JB1-47 TILE2.TRIG.DN B35.L8.N JB1-57 <				
TILE7.CLK.DN B35.L17.N JB1-56 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.N JB1-62 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.CLK.DN B35.L14.P JB1-68 TILE4.CLK.DD B35.L4.N JB1-70 TILE1.SYNC.DN B35.L4.P JB1-72 TILE1.SYNC.DN B35.L12.N JB1-76 TILE1.SYNC.DN B35.L12.N JB1-76 TILE1.TRIG.DN B35.L12.N JB1-78 TILE1.TRIG.DN B35.L12.N JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 TILE3.CLK.DN B35.L10.N JB1-37 TILE3.CLK.DP B35.L10.P JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DN B35.L9.P JB1-41 TILE3.SYNC.DN B35.L2.N JB1-45 TILE2.CLK.DN B35.L2.N JB1-45 TILE2.TRIG.DN B35.L2.N JB1-55 TILE2.TRIG.DP <td></td> <td></td> <td></td> <td></td>				
TILE7.CLK.DP B35.L17.P JB1-58 TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.CLK.DN B35.L14.P JB1-68 TILE4.CLK.DN B35.L4.N JB1-70 TILE1.SYNC.DN B35.L4.P JB1-72 TILE1.SYNC.DN B35.L12.N JB1-76 TILE1.TRIG.DN B35.L12.N JB1-78 TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.CLK.DN B35.L10.N JB1-84 TILE1.CLK.DN B35.L10.N JB1-99 TILE3.CLK.DN B35.L10.N JB1-37 TILE3.TRIG.DN B35.L9.N JB1-37 TILE3.TRIG.DN B35.L9.N JB1-43 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DN B35.L2.N JB1-45 TILE2.CLK.DN B35.L2.N JB1-45 TILE2.TRIG.DN B35.L2.N JB1-55 TILE2.TRIG.DN B35.L2.N JB1-55 TILE5.CLK.DN				
TILE4.SYNC.DN B35.L13.N JB1-60 TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.CK.DN B35.L14.P JB1-68 TILE4.CK.DN B35.L4.N JB1-70 TILE4.CK.DP B35.L4.P JB1-72 TILE1.SYNC.DP B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.N JB1-78 TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DP B35.L10.N JB1-37 non-contiguous TILE3.CLK.DP B35.L10.N JB1-37 non-contiguous TILE3.TRIG.DN B35.L10.N JB1-37 non-contiguous TILE3.TRIG.DN B35.L7.N JB1-39 non-contiguous TILE3.TRIG.DN B35.L7.N JB1-45 JB1-45 TILE2.SYNC.DN B35.L7.N JB1-45 JB1-47 TILE2.CLK.DN B35.L8.N JB1-55 JB1-57				
TILE4.SYNC.DP B35.L13.P JB1-62 TILE4.TRIG.DN B35.L14.N JB1-66 TILE4.TRIG.DP B35.L14.P JB1-68 TILE4.CLK.DN B35.L4.N JB1-70 TILE4.CLK.DP B35.L4.P JB1-72 TILE1.SYNC.DN B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.P JB1-78 TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.TRIG.DP B35.L20.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DN B35.L10.P JB1-39 non-contiguous TILE3.CLK.DN B35.L10.P JB1-35 JB1-39 TILE3.TRIG.DN B35.L9.P JB1-37 JB1-39 TILE3.SYNC.DN B35.L1.P JB1-41 JB1-39 TILE3.SYNC.DN B35.L1.N JB1-45 JB1-41 TILE2.CLK.DN B35.L2.N JB1-45 JB1-45 TILE2.CLK.DN B35.L2.N JB1-55 JB1-57 TILE2.SYNC.DN B35.L2.N JB1-57 JB1-61				
TILE4_TRIG_DN B35_L14_N JB1-66 TILE4_CLK_DN B35_L14_N JB1-70 TILE4_CLK_DP B35_L4_N JB1-70 TILE4_CLK_DP B35_L4_P JB1-72 TILE1_SYNC_DN B35_L12_N JB1-76 TILE1_SYNC_DP B35_L12_N JB1-78 TILE1_TRIG_DN B35_L20_N JB1-82 TILE1_TRIG_DP B35_L20_N JB1-82 TILE1_CLK_DN B35_L19_N JB1-97 non-contiguous TILE3_CLK_DN B35_L10_N JB1-35 non-contiguous TILE3_CLK_DP B35_L10_N JB1-35 100-contiguous TILE3_CLK_DP B35_L10_N JB1-35 100-contiguous TILE3_TRIG_DN B35_L9_N JB1-39 100-contiguous TILE3_TRIG_DN B35_L9_N JB1-39 100-contiguous TILE3_TRIG_DN B35_L10_N JB1-49 100-contiguous TILE2_CLK_DN B35_L17_N JB1-49 100-contiguous TILE2_CLK_DP B35_L2_N JB1-45 100-contiguous TILE2_TRIG_DP B		B35_L13_N	JB1-60	
TILE4.TRIG.DP B35.L14.P JB1-68 TILE4.CLK.DN B35.L4.N JB1-70 TILE4.CLK.DP B35.L4.P JB1-72 TILE1.SYNC.DN B35.L12.N JB1-76 TILE1.SYNC.DP B35.L12.P JB1-78 TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.TRIG.DP B35.L20.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 non-contiguous TILE3.CLK.DP B35.L10.P JB1-37 JB1-39 TILE3.CLK.DP B35.L9.N JB1-39 JB1-39 TILE3.TRIG.DN B35.L9.P JB1-41 JB1-49 TILE3.TRIG.DP B35.L7.N JB1-45 JB1-45 TILE2.CLK.DN B35.L2.N JB1-49 JB1-49 TILE2.CLK.DN B35.L2.N JB1-55 JB1-55 TILE2.TRIG.DN B35.L8.P JB1-57 JB1-61 TILE2.SYNC.DN B35.L11.N JB1-65 JB1-61 TILE5.CLK.DN B35.L11.P JB1-67 <td>TILE4_SYNC_DP</td> <td>B35_L13_P</td> <td>JB1-62</td> <td></td>	TILE4_SYNC_DP	B35_L13_P	JB1-62	
TILE4_CLK_DN B35_L4_N JB1-70 TILE4_CLK_DP B35_L4_P JB1-72 TILE1_SYNC_DN B35_L12_N JB1-76 TILE1_SYNC_DP B35_L12_N JB1-78 TILE1_TRIG_DN B35_L20_N JB1-82 TILE1_TRIG_DP B35_L20_P JB1-84 TILE1_CLK_DN B35_L10_N JB1-97 non-contiguous TILE1_CLK_DP B35_L10_N JB1-99 non-contiguous TILE3_CLK_DN B35_L10_N JB1-35 JB1-37 TILE3_CLK_DP B35_L10_N JB1-37 JB1-39 TILE3_TRIG_DN B35_L9_N JB1-39 JB1-49 TILE3_SYNC_DN B35_L7_N JB1-45 JB1-47 TILE2_CLK_DN B35_L2_N JB1-47 JB1-47 TILE2_CLK_DN B35_L2_N JB1-55 JB1-57 TILE2_TRIG_DN B35_L8_N JB1-55 JB1-57 TILE2_SYNC_DN B35_L21_N JB1-61 JB1-61 TILE5_CLK_DN B35_L11_N JB1-67 JB1-67 TILE5_TRIG_DN B35_L23_N </td <td>TILE4_TRIG_DN</td> <td>$B35_L14_N$</td> <td>JB1-66</td> <td></td>	TILE4_TRIG_DN	$B35_L14_N$	JB1-66	
TILE4_CLK_DP B35_L4_P JB1-72 TILE1_SYNC_DN B35_L12_N JB1-76 TILE1_SYNC_DP B35_L12_P JB1-78 TILE1_TRIG_DN B35_L20_N JB1-82 TILE1_TRIG_DP B35_L20_P JB1-84 TILE1_CLK_DN B35_L19_N JB1-97 non-contiguous TILE1_CLK_DP B35_L10_N JB1-99 non-contiguous TILE3_CLK_DP B35_L10_N JB1-35 JB1-37 TILE3_CLK_DP B35_L10_N JB1-37 JB1-37 TILE3_TRIG_DN B35_L9_N JB1-39 JB1-49 TILE3_TRIG_DN B35_L7_N JB1-45 JB1-45 TILE3_SYNC_DN B35_L1_N JB1-47 JB1-47 TILE2_CLK_DN B35_L2_N JB1-49 JB1-55 TILE2_TRIG_DN B35_L8_N JB1-55 JB1-57 TILE2_SYNC_DN B35_L21_N JB1-57 JB1-61 TILE5_CLK_DN B35_L11_N JB1-61 JB1-61 TILE5_TRIG_DN B35_L23_N JB1-67 JB1-67 TILE5_SYNC_DN </td <td>TILE4_TRIG_DP</td> <td>$B35_L14_P$</td> <td>JB1-68</td> <td></td>	TILE4_TRIG_DP	$B35_L14_P$	JB1-68	
TILE1_SYNC_DN B35_L12_N JB1-76 TILE1_SYNC_DP B35_L12_P JB1-78 TILE1_TRIG_DN B35_L20_N JB1-82 TILE1_TRIG_DP B35_L20_P JB1-84 TILE1_CLK_DN B35_L19_N JB1-97 non-contiguous TILE1_CLK_DP B35_L10_N JB1-99 non-contiguous TILE3_CLK_DP B35_L10_N JB1-35 1 TILE3_CLK_DP B35_L10_N JB1-35 1 TILE3_CLK_DP B35_L9_N JB1-37 1 TILE3_TRIG_DN B35_L9_N JB1-39 1 TILE3_SYNC_DN B35_L7_N JB1-41 1 TILE3_SYNC_DN B35_L1_N JB1-45 1 TILE2_CLK_DN B35_L1_N JB1-47 1 TILE2_CLK_DN B35_L1_N JB1-55 1 TILE2_TRIG_DN B35_L1_N JB1-55 1 TILE2_SYNC_DN B35_L1_N JB1-61 1 TILE5_CLK_DN B35_L1_N JB1-65 1 TILE5_TRIG_DN B35_L2_N	TILE4_CLK_DN	$B35_L4_N$	JB1-70	
TILE1.SYNC.DP B35.L12.P JB1-78 TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.TRIG.DP B35.L20.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DN B35.L10.N JB1-99 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 JB1-41 TILE3.TRIG.DP B35.L9.P JB1-41 JB1-45 TILE3.SYNC.DN B35.L7.N JB1-45 JB1-45 TILE3.SYNC.DN B35.L2.N JB1-47 JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 JB1-47 TILE2.CLK.DN B35.L2.P JB1-51 JB1-55 TILE2.TRIG.DN B35.L8.N JB1-55 JB1-57 TILE2.SYNC.DN B35.L2.N JB1-59 JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 JB1-61 TILE5.TRIG.DN B35.L11.N JB1-67 JB1-67 TILE5.TRIG.DP B35.L3.N JB1-75 JB1-71 TILE5.SYNC.DN B35.L3.N JB1-75 JB1-75	TILE4_CLK_DP	$B35_L4_P$	JB1-72	
TILE1.TRIG.DN B35.L20.N JB1-82 TILE1.TRIG.DP B35.L20.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 TILE3.CLK.DP B35.L10.P JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L7.P JB1-45 TILE2.CLK.DN B35.L2.N JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DN B35.L8.P JB1-55 TILE2.SYNC.DN B35.L21.N JB1-57 TILE2.SYNC.DP B35.L21.N JB1-65 TILE5.CLK.DN B35.L11.N JB1-65 TILE5.CLK.DN B35.L11.N JB1-67 TILE5.TRIG.DN B35.L23.N JB1-67 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.TRI	TILE1_SYNC_DN	B35_L12_N	JB1-76	
TILE1.TRIG.DP B35.L20.P JB1-84 TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE3.CLK.DN B35.L10.N JB1-99 non-contiguous TILE3.CLK.DP B35.L10.N JB1-35 IB1-35 TILE3.CLK.DP B35.L10.P JB1-37 IB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 IB1-49 TILE3.SYNC.DN B35.L7.N JB1-45 IB1-49 TILE3.SYNC.DP B35.L2.N JB1-45 IB1-49 TILE2.CLK.DN B35.L2.N JB1-49 IB1-49 TILE2.CLK.DN B35.L2.N JB1-49 IB1-49 TILE2.TRIG.DN B35.L8.N JB1-55 IB1-57 TILE2.TRIG.DN B35.L21.N JB1-55 IB1-61 TILE2.SYNC.DN B35.L21.N JB1-65 IB1-61 TILE5.CLK.DN B35.L21.N JB1-65 IB1-67 TILE5.TRIG.DN B35.L23.N JB1-67 IB1-71 TILE5.SYNC.DN B35.L5.N JB1-75 IB1-71 TILE8.CLK.DN B35.L3.N	TILE1_SYNC_DP	B35_L12_P	JB1-78	
TILE1.CLK.DN B35.L19.N JB1-97 non-contiguous TILE1.CLK.DN B35.L19.P JB1-99 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 IB1-37 TILE3.TRIG.DN B35.L9.N JB1-37 JB1-39 TILE3.TRIG.DP B35.L9.N JB1-39 JB1-41 TILE3.SYNC.DN B35.L9.P JB1-41 JB1-45 TILE3.SYNC.DP B35.L7.P JB1-45 JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 JB1-47 TILE2.CLK.DP B35.L2.N JB1-51 JB1-49 TILE2.TRIG.DN B35.L2.N JB1-55 JB1-57 TILE2.TRIG.DP B35.L2.N JB1-59 JB1-59 TILE2.SYNC.DN B35.L21.N JB1-65 JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 JB1-67 TILE5.TRIG.DP B35.L23.N JB1-69 JB1-71 TILE5.SYNC.DN B35.L5.N JB1-75 JB1-75 TILE8.CLK.DN B35.L3.N JB1-77 JB1-77 TILE8.TRIG.DN	TILE1_TRIG_DN	$B35_L20_N$	JB1-82	
TILE1.CLK.DP B35.L19.P JB1-99 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 TILE3.CLK.DP B35.L10.P JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L2.N JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 TILE2.CLK.DP B35.L2.P JB1-51 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DP B35.L21.N JB1-59 TILE2.SYNC.DN B35.L21.P JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 TILE5.CLK.DP B35.L23.N JB1-67 TILE5.TRIG.DN B35.L23.N JB1-69 TILE5.TRIG.DP B35.L23.N JB1-71 TILE5.SYNC.DN B35.L5.N JB1-75 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.CLK.DP B35.L3.N JB1-79 TILE8.TRIG.DN B35.L6.N JB1-85	TILE1_TRIG_DP	B35_L20_P	JB1-84	
TILE1.CLK.DP B35.L19.P JB1-99 non-contiguous TILE3.CLK.DN B35.L10.N JB1-35 TILE3.CLK.DP B35.L10.P JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L7.P JB1-47 TILE2.CLK.DN B35.L2.N JB1-47 TILE2.CLK.DN B35.L2.N JB1-55 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DN B35.L21.N JB1-57 TILE2.SYNC.DN B35.L21.N JB1-59 TILE5.CLK.DN B35.L21.N JB1-61 TILE5.CLK.DN B35.L11.N JB1-67 TILE5.TRIG.DN B35.L23.N JB1-67 TILE5.TRIG.DN B35.L23.N JB1-77 TILE5.SYNC.DN B35.L5.N JB1-77 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.TRIG.DN B35.L3.P JB1-81 TILE8.TRIG.DN B35.L6.N JB1-85	TILE1_CLK_DN	B35_L19_N	JB1-97	non-contiguous
TILE3.CLK.DN B35.L10.N JB1-35 TILE3.CLK.DP B35.L10.P JB1-37 TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L2.N JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 TILE2.CLK.DP B35.L2.P JB1-51 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DP B35.L8.P JB1-57 TILE2.SYNC.DN B35.L21.N JB1-59 TILE2.SYNC.DN B35.L21.N JB1-59 TILE2.SYNC.DP B35.L21.P JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 TILE5.CLK.DP B35.L23.N JB1-67 TILE5.TRIG.DN B35.L23.N JB1-69 TILE5.TRIG.DN B35.L3.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.P JB1-77 TILE5.CLK.DN B35.L3.N JB1-79 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.CLK.DP B35.L3.P JB1-81 TILE8.TRIG.DN B35.L6.N JB1-85 TILE8.TRIG.DP B35.L6.P JB1-87 TILE8.SYNC.DN B35.L1.N JB1-93 TILE8.SYNC.DN B35.L1.N JB1-93	TILE1_CLK_DP	B35_L19_P	JB1-99	_
TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L7.P JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 TILE2.CLK.DP B35.L2.P JB1-51 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DP B35.L8.P JB1-57 TILE2.SYNC.DN B35.L21.N JB1-59 TILE2.SYNC.DN B35.L21.P JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 TILE5.CLK.DN B35.L11.P JB1-67 TILE5.TRIG.DN B35.L23.N JB1-69 TILE5.TRIG.DP B35.L23.P JB1-71 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DP B35.L3.N JB1-79 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.CLK.DN B35.L3.N JB1-85 TILE8.TRIG.DN B35.L6.N JB1-85 TILE8.TRIG.DP B35.L6.P JB1-87 TILE8.SYNC.DN B35.L1.N JB1-93 TILE8.SYNC.DP B35.L1.N JB1-93	TILE3_CLK_DN	B35_L10_N	JB1-35	
TILE3.TRIG.DN B35.L9.N JB1-39 TILE3.TRIG.DP B35.L9.P JB1-41 TILE3.SYNC.DN B35.L7.N JB1-45 TILE3.SYNC.DP B35.L7.P JB1-47 TILE2.CLK.DN B35.L2.N JB1-49 TILE2.CLK.DP B35.L2.P JB1-51 TILE2.TRIG.DN B35.L8.N JB1-55 TILE2.TRIG.DP B35.L8.P JB1-57 TILE2.SYNC.DN B35.L21.N JB1-59 TILE2.SYNC.DN B35.L21.P JB1-61 TILE5.CLK.DN B35.L11.N JB1-65 TILE5.CLK.DN B35.L11.P JB1-67 TILE5.TRIG.DN B35.L23.N JB1-69 TILE5.TRIG.DP B35.L23.P JB1-71 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DN B35.L5.N JB1-75 TILE5.SYNC.DP B35.L3.N JB1-79 TILE8.CLK.DN B35.L3.N JB1-79 TILE8.CLK.DN B35.L3.N JB1-85 TILE8.TRIG.DN B35.L6.N JB1-85 TILE8.TRIG.DP B35.L6.P JB1-87 TILE8.SYNC.DN B35.L1.N JB1-93 TILE8.SYNC.DP B35.L1.N JB1-93	TILE3_CLK_DP	B35_L10_P	JB1-37	
TILE3_TRIG_DP B35_L9_P JB1-41 TILE3_SYNC_DN B35_L7_N JB1-45 TILE3_SYNC_DP B35_L7_P JB1-47 TILE2_CLK_DN B35_L2_N JB1-49 TILE2_CLK_DP B35_L2_P JB1-51 TILE2_TRIG_DN B35_L8_N JB1-55 TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DN B35_L11_N JB1-65 TILE5_CLK_DP B35_L11_P JB1-67 TILE5_TRIG_DN B35_L23_N JB1-69 TILE5_TRIG_DP B35_L23_P JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE5_SYNC_DP B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-77 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DP B35_L6_P JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE3_SYNC_DP B35_L7_N JB1-45 TILE3_SYNC_DP B35_L7_P JB1-47 TILE2_CLK_DN B35_L2_N JB1-49 TILE2_CLK_DP B35_L2_P JB1-51 TILE2_TRIG_DN B35_L8_N JB1-55 TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DP B35_L11_N JB1-65 TILE5_CLK_DP B35_L11_P JB1-67 TILE5_TRIG_DN B35_L23_N JB1-69 TILE5_TRIG_DP B35_L23_P JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE5_SYNC_DP B35_L5_P JB1-77 TILE8_CLK_DP B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DP B35_L6_P JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE3_SYNC_DP B35_L7_P JB1-47 TILE2_CLK_DN B35_L2_N JB1-49 TILE2_CLK_DP B35_L2_P JB1-51 TILE2_TRIG_DN B35_L8_N JB1-55 TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DN B35_L11_N JB1-65 TILE5_CLK_DP B35_L23_N JB1-67 TILE5_TRIG_DN B35_L23_N JB1-69 TILE5_SYNC_DN B35_L5_N JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE8_CLK_DN B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DN B35_L6_N JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE2_CLK_DN				
TILE2_CLK_DP B35_L2_P JB1-51 TILE2_TRIG_DN B35_L8_N JB1-55 TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DN B35_L11_N JB1-65 TILE5_CLK_DP B35_L11_P JB1-67 TILE5_TRIG_DP B35_L23_N JB1-69 TILE5_TRIG_DP B35_L23_P JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE5_SYNC_DP B35_L5_P JB1-77 TILE8_CLK_DN B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DP B35_L6_N JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DP B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE2_TRIG_DN B35_L8_N JB1-55 TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DN B35_L11_N JB1-65 TILE5_CLK_DP B35_L11_P JB1-67 TILE5_TRIG_DN B35_L23_N JB1-69 TILE5_TRIG_DP B35_L23_P JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE5_SYNC_DP B35_L5_P JB1-77 TILE8_CLK_DN B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DN B35_L6_N JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE2_TRIG_DP B35_L8_P JB1-57 TILE2_SYNC_DN B35_L21_N JB1-59 TILE2_SYNC_DP B35_L21_P JB1-61 TILE5_CLK_DN B35_L11_N JB1-65 TILE5_CLK_DP B35_L11_P JB1-67 TILE5_TRIG_DN B35_L23_N JB1-69 TILE5_TRIG_DP B35_L23_P JB1-71 TILE5_SYNC_DN B35_L5_N JB1-75 TILE5_SYNC_DP B35_L5_P JB1-77 TILE8_CLK_DN B35_L3_N JB1-79 TILE8_CLK_DP B35_L3_P JB1-81 TILE8_TRIG_DN B35_L6_N JB1-85 TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
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TILE8_TRIG_DP B35_L6_P JB1-87 TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P JB1-95				
TILE8_SYNC_DN B35_L1_N JB1-93 TILE8_SYNC_DP B35_L1_P IB1-95				
TILE8 SYNC DP B35 L1 P IB1-95				
TILE8_SYNC_DP B35_L1_P JB1-95 4				
	TILE8_SYNC_DP	B35_L1_P	JB1-95	4

Logical	Trenz	Pin	Note
TILE1_EN	B34_L1_P	JB3-7	
TILE4_EN	B34_L1_N	JB3-9	
$TILE7_{-}EN$	B34_L18_P	JB3-13	
TILE6_EN	$B34_L18_N$	JB3-15	
TILE3_EN	B34_L20_P	JB3-19	
TILE2_EN	$B34_L20_N$	JB3-21	
$TILE5_EN$	B34_L10_P	JB3-25	
TILE8_EN	$B34_L10_N$	JB3-27	

Logical	Trenz	Package Pin
SCL-1	MIO10	
SDA-1	MIO11	
SCL-LOOPBACK	$B34_L8_P$	
SDA-LOOPBACK	$B34_L8_N$	
SCL-2	B34_L9_P	
SDA-2	$B34_L9_N$	
LED	MIO12	
LED	MIO13	
LED	B34_L22_P	
LED	$B34_L22_N$	
ANALOG_PWR_EN	$B34_L2_P$	JB3-14
TRIG_ISO	B34_L7_P	JB3-8
SYNC_ISO	$B34_L7_N$	JB3-10
CLK	TBD	
TRIG	TBD	
SYNC	TBD	