

Mimas ECP5 Mini FPGA Development Board

GPIO Header P4

Pin No. On the Header	Pin Description	ECP5 (7BG256I) Pin No	Pin No. On the Header2	Pin Description2	ECP5 (7BG256I) Pin No2
2	NA	GND	1	NA	VCCIO
4	PR 11A / U R C_GPL LOT_IN	B16	3	PR 11B / U R C_GPL LOC_IN	B15
6	PR14A	C16	5	PR14B	C15
8	PR17A	D16	7	PR17B	E15
10	PR20A	G12	9	PR20B	G13
12	PR23A	F16	11	PR23B	G15
14	PR29A / G R_P C L K 2_1	G16	13	PR29B	H15
16	PR26A	H12	15	PR26B	H13
18	PR38A / G R_P C L K 3_0	K13	17	PR38B	K12
20	PR32A / P C L K T 2_1	J16	19	PR32B / P C L K C 2_1	J15
22	PR29C / G R_P C L K 2_0	J14	21	PR29D	K14
24	PR32C / P C L K C 2_0	K16	23	PR32D / P C L K C 2_0	K15
26	PR35A / P C L K T 3_1	L16	25	PR35B / P C L K C 3_1	L15
28	PR41A	N16	27	PR41B	P15
30	PR44A	P16	29	PR44B / V REF1_3	R16
32	PR59A	N13	31	PR59B	P14
34	PR62A	P13	33	PR62B	R14
36	PR65A	R12	35	PR65B	T13
38	PR68B	N11	37	PR68A	M11
40	NA	GND	39	NA	VCCIO

GPIO Header P5

Pin No. On the Header	Pin Description	ECP5 (7BG256I) Pin No	Pin No. On the Header2	Pin Description2	ECP5 (7BG256I) Pin No2
2	NA	VCCIO	1	NA	GND
4	PR20D	E16	3	PR 11C	C14
6	PR20C	F15	5	PR 11D	D14
8	PR14C	E14	7	PR14D	F14
10	PR17D	F12	9	PR17C	F13
12	PT47B/GR_PCLK1_1	C9	11	PT47A / G R_P C L K 1_0	B9
14	PT49B	E9	13	PT49A	D9
16	PT44A / P C L K T 1_0	C8	15	PT44B / P C L K C 1_0	B8
18	PT42A / P C L K T 1_1	E8	17	PT42B / P C L K C 1_1	D8
20	PR26C	J13	19	PR26D	J12
22	NA	GND	21	NA	GND
24	PR38C / G R_P C L K 3_1	L13	23	PR38D	L12
26	PR65C	M12	25	PR65D	N12
28	PR68D / L R C_GPL LOC_IN	P12	27	PR68C / L R C_GPL LOT_IN	P11
30	PR41D	M14	29	PR44C	M13
32	PR62C	R13	31	PR44D	N14
34	PR41C	L14	33	PR35D / P C L K C 3_0	M15
36	PR59D	T15	35	PR62D	T14
38	PR35C / P C L K T 3_0	M16	37	PR59C	R15
40	NA	VCCIO	39	NA	GND

Expansion Header P7

Pin No. On the Header	Pin Description	ECP5 (7BG256I) Pin No	Pin No. On the Header2	Pin Description2	ECP5 (7BG256I) Pin No2
6	NA	VCCIO	12	NA	VCCIO
5	NA	GND	11	NA	GND
4	PT51B	A10	10	PR23C/VREF1_2	G14
3	PT51A	A9	9	PR23D	H14
2	PT69B	E11	8	PT74B	C12
1	PT69A	D11	7	PT74A	B12

Expansion Header P10

Pin No. On the Header	Pin Description	ECP5 (7BG256I) Pin No	Pin No. On the Header2	Pin Description2	ECP5 (7BG256I) Pin No2
6	NA	VCCIO	12	NA	VCCIO
5	NA	GND	11	NA	GND
4	PT53B	C10	10	PT83B	A14
3	PT53A	B10	9	PT83A	A13
2	PT56B	E10	8	PT71B	A12
1	PT56A	D10	7	PT71A	A11