

Pin List: XEM8320

2022-01-25

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTA	1		FX3_SCL_3V3	
PORTA	2		+5V_SZG	
PORTA	3		FX3_SDA_3V3	
PORTA	4		R_GA	
PORTA	5	L18	SZG_PORTA_S0_D0P	95.308
PORTA	6	M25	SZG_PORTA_S1_D1P	78.501
PORTA	7	K18	SZG_PORTA_S2_D0N	95.484
PORTA	8	M26	SZG_PORTA_S3_D1N	78.574
PORTA	9	M20	SZG_PORTA_S4_D2P	98.428
PORTA	10	L24	SZG_PORTA_S5_D3P	83.343
PORTA	11	M21	SZG_PORTA_S6_D2N	98.073
PORTA	12	L25	SZG_PORTA_S7_D3N	83.467
PORTA	13	J19	SZG_PORTA_S8_D4P	91.489
PORTA	14	K25	SZG_PORTA_S9_D5P	82.797
PORTA	15	J20	SZG_PORTA_S10_D4N	93.114
PORTA	16	K26	SZG_PORTA_S11_D5N	82.534
PORTA	17	M19	SZG_PORTA_S12_D6P	92.129
PORTA	18	K22	SZG_PORTA_S13_D7P	84.155
PORTA	19	L19	SZG_PORTA_S14_D6N	91.934
PORTA	20	K23	SZG_PORTA_S15_D7N	83.993
PORTA	21	H24	SZG_PORTA_S16	80.872
PORTA	22	L23	SZG_PORTA_S17	78.269
PORTA	23	J21	SZG_PORTA_S18	78.781
PORTA	24	L22	SZG_PORTA_S19	81.841
PORTA	25	H23	SZG_PORTA_S20	74.533
PORTA	26	L20	SZG_PORTA_S21	78.199
PORTA	27	K21	SZG_PORTA_S22	76.959
PORTA	28	K20	SZG_PORTA_S23	76.006
PORTA	29	F24	SZG_PORTA_S24	70.802
PORTA	30	J26	SZG_PORTA_S25	73.590
PORTA	31	F25	SZG_PORTA_S26	67.711

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTA	32	J25	SZG_PORTA_S27	68.603
PORTA	33	J23	SZG_PORTA_P2C_CLKP	77.794
PORTA	34	H26	SZG_PORTA_C2P_CLKP	66.799
PORTA	35	J24	SZG_PORTA_P2C_CLKN	77.914
PORTA	36	G26	SZG_PORTA_C2P_CLKN	67.129
PORTA	37		RSVD	
PORTA	38		RSVD	
PORTA	39		VIO1	
PORTA	40		+3.3V_SZG	
PORTB	1		FX3_SCL_3V3	
PORTB	2		+5V_SZG	
PORTB	3		FX3_SDA_3V3	
PORTB	4		R_GA	
PORTB	5	A22	SZG_PORTB_S0_D0P	43.152
PORTB	6	A24	SZG_PORTB_S1_D1P	36.174
PORTB	7	A23	SZG_PORTB_S2_D0N	43.179
PORTB	8	A25	SZG_PORTB_S3_D1N	36.361
PORTB	9	E21	SZG_PORTB_S4_D2P	48.124
PORTB	10	D24	SZG_PORTB_S5_D3P	40.513
PORTB	11	D21	SZG_PORTB_S6_D2N	48.119
PORTB	12	D25	SZG_PORTB_S7_D3N	40.232
PORTB	13	E25	SZG_PORTB_S8_D4P	45.962
PORTB	14	C23	SZG_PORTB_S9_D5P	39.444
PORTB	15	E26	SZG_PORTB_S10_D4N	45.893
PORTB	16	B24	SZG_PORTB_S11_D5N	39.298
PORTB	17	F23	SZG_PORTB_S12_D6P	47.746
PORTB	18	C21	SZG_PORTB_S13_D7P	38.256
PORTB	19	E23	SZG_PORTB_S14_D6N	47.900
PORTB	20	B21	SZG_PORTB_S15_D7N	38.191
PORTB	21	D26	SZG_PORTB_S16	44.184
PORTB	22	C26	SZG_PORTB_S17	36.753
PORTB	23	B26	SZG_PORTB_S18	41.205
PORTB	24	B25	SZG_PORTB_S19	35.018
PORTB	25	D23	SZG_PORTB_S20	43.912

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTB	26	C24	SZG_PORTB_S21	36.350
PORTB	27	B20	SZG_PORTB_S22	40.581
PORTB	28	C22	SZG_PORTB_S23	34.683
PORTB	29	B22	SZG_PORTB_S24	40.777
PORTB	30	A20	SZG_PORTB_S25	34.244
PORTB	31	D20	SZG_PORTB_S26	43.363
PORTB	32	G21	SZG_PORTB_S27	39.567
PORTB	33	G24	SZG_PORTB_P2C_CLKP	56.909
PORTB	34	H21	SZG_PORTB_C2P_CLKP	44.139
PORTB	35	G25	SZG_PORTB_P2C_CLKN	56.870
PORTB	36	H22	SZG_PORTB_C2P_CLKN	44.325
PORTB	37		RSVD	
PORTB	38		RSVD	
PORTB	39		VIO1	
PORTB	40		+3.3V_SZG	
PORTC	1		FX3_SCL_3V3	
PORTC	2		+5V_SZG	
PORTC	3		FX3_SDA_3V3	
PORTC	4		R_GA	
PORTC	5	F20	SZG_PORTC_S0_D0P	72.545
PORTC	6	C18	SZG_PORTC_S1_D1P	61.194
PORTC	7	E20	SZG_PORTC_S2_D0N	72.346
PORTC	8	C19	SZG_PORTC_S3_D1N	61.213
PORTC	9	H18	SZG_PORTC_S4_D2P	74.268
PORTC	10	H17	SZG_PORTC_S5_D3P	67.966
PORTC	11	H19	SZG_PORTC_S6_D2N	74.454
PORTC	12	G17	SZG_PORTC_S7_D3N	67.771
PORTC	13	F18	SZG_PORTC_S8_D4P	76.666
PORTC	14	A17	SZG_PORTC_S9_D5P	61.627
PORTC	15	F19	SZG_PORTC_S10_D4N	77.826
PORTC	16	A18	SZG_PORTC_S11_D5N	61.496
PORTC	17	E16	SZG_PORTC_S12_D6P	74.740
PORTC	18	B15	SZG_PORTC_S13_D7P	67.528
PORTC	19	E17	SZG_PORTC_S14_D6N	74.577

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTC	20	A15	SZG_PORTC_S15_D7N	67.269
PORTC	21	A19	SZG_PORTC_S16	68.209
PORTC	22	B19	SZG_PORTC_S17	59.793
PORTC	23	H16	SZG_PORTC_S18	78.194
PORTC	24	D16	SZG_PORTC_S19	60.875
PORTC	25	D19	SZG_PORTC_S20	68.017
PORTC	26	E15	SZG_PORTC_S21	63.014
PORTC	27	G20	SZG_PORTC_S22	72.856
PORTC	28	C16	SZG_PORTC_S23	60.472
PORTC	29	G16	SZG_PORTC_S24	77.541
PORTC	30	F15	SZG_PORTC_S25	63.900
PORTC	31	G15	SZG_PORTC_S26	77.679
PORTC	32	D15	SZG_PORTC_S27	61.751
PORTC	33	E18	SZG_PORTC_P2C_CLKP	74.304
PORTC	34	C17	SZG_PORTC_C2P_CLKP	67.944
PORTC	35	D18	SZG_PORTC_P2C_CLKN	74.225
PORTC	36	B17	SZG_PORTC_C2P_CLKN	67.749
PORTC	37		RSVD	
PORTC	38		RSVD	
PORTC	39		VIO1	
PORTC	40		+3.3V_SZG	
PORTD	1		FX3_SCL_3V3	
PORTD	2		+5V_SZG	
PORTD	3		FX3_SDA_3V3	
PORTD	4		R_GA	
PORTD	5	J12	SZG_PORTD_S0_D0P	99.328
PORTD	6	W12	SZG_PORTD_S1_D1P	83.974
PORTD	7	H12	SZG_PORTD_S2_D0N	99.295
PORTD	8	W13	SZG_PORTD_S3_D1N	83.452
PORTD	9	Y13	SZG_PORTD_S4_D2P	94.093
PORTD	10	H14	SZG_PORTD_S5_D3P	94.204
PORTD	11	AA13	SZG_PORTD_S6_D2N	94.102
PORTD	12	G14	SZG_PORTD_S7_D3N	93.863
PORTD	13	J13	SZG_PORTD_S8_D4P	101.129

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTD	14	AF14	SZG_PORTD_S9_D5P	79.218
PORTD	15	H13	SZG_PORTD_S10_D4N	101.219
PORTD	16	AF15	SZG_PORTD_S11_D5N	79.511
PORTD	17	AE13	SZG_PORTD_S12_D6P	86.032
PORTD	18	AC13	SZG_PORTD_S13_D7P	84.104
PORTD	19	AF13	SZG_PORTD_S14_D6N	85.572
PORTD	20	AC14	SZG_PORTD_S15_D7N	84.078
PORTD	21	J14	SZG_PORTD_S16	100.274
PORTD	22	J15	SZG_PORTD_S17	93.712
PORTD	23	W14	SZG_PORTD_S18	94.022
PORTD	24	Y15	SZG_PORTD_S19	86.099
PORTD	25	AB16	SZG_PORTD_S20	95.389
PORTD	26	W15	SZG_PORTD_S21	86.804
PORTD	27	AB15	SZG_PORTD_S22	97.654
PORTD	28	AE15	SZG_PORTD_S23	84.224
PORTD	29	AA15	SZG_PORTD_S24	99.164
PORTD	30	AD15	SZG_PORTD_S25	85.859
PORTD	31	Y16	SZG_PORTD_S26	108.768
PORTD	32	W16	SZG_PORTD_S27	88.107
PORTD	33	AA14	SZG_PORTD_P2C_CLKP	100.877
PORTD	34	AD13	SZG_PORTD_C2P_CLKP	93.671
PORTD	35	AB14	SZG_PORTD_P2C_CLKN	100.854
PORTD	36	AD14	SZG_PORTD_C2P_CLKN	93.783
PORTD	37		RSVD	
PORTD	38		RSVD	
PORTD	39		VIO2	
PORTD	40		+3.3V_SZG	
PORTE	1		FX3_SCL_3V3	
PORTE	2		+5V_SZG	
PORTE	3		FX3_SDA_3V3	
PORTE	4		R_GA	
PORTE	5	AF2	SZG_PORTE_RX0P	42.744
PORTE	6	AF7	SZG_PORTE_TX0P	36.184
PORTE	7	AF1	SZG_PORTE_RX0N	42.667

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTE	8	AF6	SZG_PORTE_TX0N	36.195
PORTE	9	AE4	SZG_PORTE_RX1P	43.844
PORTE	10	AE9	SZG_PORTE_TX1P	36.272
PORTE	11	AE3	SZG_PORTE_RX1N	43.860
PORTE	12	AE8	SZG_PORTE_TX1N	36.290
PORTE	13	AB7	SZG_PORTE_REFCLK0P	51.404
PORTE	14	H9	SZG_PORTE_S0	59.160
PORTE	15	AB6	SZG_PORTE_REFCLK0N	51.516
PORTE	16	J9	SZG_PORTE_S1	56.983
PORTE	17	J10	SZG_PORTE_S2	62.099
PORTE	18	H11	SZG_PORTE_S3	57.859
PORTE	19	K9	SZG_PORTE_S4	58.608
PORTE	20	G9	SZG_PORTE_S5	64.879
PORTE	21	K10	SZG_PORTE_S6	58.436
PORTE	22	G10	SZG_PORTE_S7	63.580
PORTE	23	J11	SZG_PORTE_S8	59.378
PORTE	24	G11	SZG_PORTE_S9	63.106
PORTE	25	AB2	SZG_PORTE_RX3P	57.956
PORTE	26	AC5	SZG_PORTE_TX3P	50.556
PORTE	27	AB1	SZG_PORTE_RX3N	57.956
PORTE	28	AC4	SZG_PORTE_TX3N	50.579
PORTE	29	AD2	SZG_PORTE_RX2P	57.263
PORTE	30	AD7	SZG_PORTE_TX2P	50.357
PORTE	31	AD1	SZG_PORTE_RX2N	57.224
PORTE	32	AD6	SZG_PORTE_TX2N	50.410
PORTE	33	E11	SZG_PORTE_P2C_CLKP	75.386
PORTE	34	F10	SZG_PORTE_C2P_CLKP	68.102
PORTE	35	E10	SZG_PORTE_P2C_CLKN	75.211
PORTE	36	F9	SZG_PORTE_C2P_CLKN	67.880
PORTE	37		RSVD	
PORTE	38		RSVD	
PORTE	39		VIO3	
PORTE	40		+3.3V_SZG	
PORTF	1		FX3_SCL_3V3	

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTF	2		+5V_SZG	
PORTF	3		FX3_SDA_3V3	
PORTF	4		R_GA	
PORTF	5	Y2	SZG_PORTF_RX0P	70.349
PORTF	6	AA5	SZG_PORTF_TX0P	66.391
PORTF	7	Y1	SZG_PORTF_RX0N	70.387
PORTF	8	AA4	SZG_PORTF_TX0N	66.383
PORTF	9	V2	SZG_PORTF_RX1P	64.410
PORTF	10	W5	SZG_PORTF_TX1P	65.140
PORTF	11	V1	SZG_PORTF_RX1N	64.357
PORTF	12	W4	SZG_PORTF_TX1N	65.120
PORTF	13	V7	SZG_PORTF_REFCLKP	79.828
PORTF	14	B9	SZG_PORTF_S0	79.490
PORTF	15	V6	SZG_PORTF_REFCLKN	79.755
PORTF	16	A10	SZG_PORTF_S1	83.294
PORTF	17	B10	SZG_PORTF_S2	81.042
PORTF	18	A9	SZG_PORTF_S3	79.939
PORTF	19	D9	SZG_PORTF_S4	81.359
PORTF	20	C9	SZG_PORTF_S5	80.927
PORTF	21		NC	
PORTF	22		NC	
PORTF	23		NC	
PORTF	24		NC	
PORTF	25	P2	SZG_PORTF_RX3P	64.696
PORTF	26	R5	SZG_PORTF_TX3P	56.896
PORTF	27	P1	SZG_PORTF_RX3N	64.694
PORTF	28	R4	SZG_PORTF_TX3N	56.887
PORTF	29	T2	SZG_PORTF_RX2P	63.235
PORTF	30	U5	SZG_PORTF_TX2P	53.104
PORTF	31	T1	SZG_PORTF_RX2N	63.219
PORTF	32	U4	SZG_PORTF_TX2N	53.095
PORTF	33	D11	SZG_PORTF_P2C_CLKP	81.329
PORTF	34	C11	SZG_PORTF_C2P_CLKP	76.011
PORTF	35	D10	SZG_PORTF_P2C_CLKN	81.168

Connector	Pin	FPGA Pin	Description	PCB Length (mm)
PORTF	36	B11	SZG_PORTF_C2P_CLKN	75.576
PORTF	37		RSVD	
PORTF	38		RSVD	
PORTF	39		VIO3	
PORTF	40		+3.3V_SZG	
J3	1		GND	
J3	2		VREF	
J3	3		GND	
J3	4		TMS	
J3	5		GND	
J3	6		TCK	
J3	7		GND	
J3	8		TDO	37.436
J3	9		GND	
J3	10		TDI	
J3	11		GND	
J3	12		NC	
J3	13		GND	
J3	14		NC	