

quantity in hand	quantity for 5 boards	quantity for 100 boards	line #	quantity per board	reference designators	part name	description	mfg part #	value	size / package	PCB decal	digikey part #	notes	dielectric type	cost
	250	10	200	1	2J1-2	2MM_SMD_8PIN_JUMPER_BLOCK	jumper block for 4 jumpers	57202-G52-04LF			2MM_SMD_8PIN_VERT	609-2623-ND			
do not install		10	200	2	2BBO-1	SX7_BREADBOARD	5x7 breadboard area				SX7_BREADBOARD		do not install		
	96	10	200	3	2ADQ0-1	AD7923	4 channel SPI ADC	AD7923BRUZ			TSSOP16	AD7923BRUZ-ND			
	25	15	300	4	3ABUF ABUF01 ABUF23	AMP_BUFFER	unity gain buffer	lmh6559			SOT23-5	LMH6559MF/NOPBCT-ND			
	100	5	100	5	1AND	AND_SN74AUP1G08	2 input AND gate	SN74AUP1G08DCKR			SOT323-5-SC70	296-19075-1-ND			
	100	25	500	6	5DBUF4 DBUF6 DBUF8 DBUF10 DBUF12	BUFFER-OPEN-DRAIN-SN74LVC2G07	open-drain buffer	SN74LVC2G07DCKR			SOT323-6-SC70	296-13495-1-ND			
	100	15	300	7	3DBUF1-3	BUFFER_DUAL_SN74LVC2G34	dual buffer	SN74LVC2G34			SOT323-6-SC70	296-13497-1-ND			
	38240	455	9100	8	91CG1-91	CAPACITOR,0.1uF	capacitor		0.1uF			402			
	20000	45	900	9	9C1-4 C18-19 C29 C31 C33	CAPACITOR,0.47uF	capacitor		0.47uF			402			
	10000	10	200	10	2CM1-2	CAPACITOR,100pF	capacitor		100pF			402			
	6000	70	1400	11	14CD1 CD3-5 CD7-16	CAPACITOR,100uF	capacitor		100uF			1210			
	10000	140	2800	12	28CC1-28	CAPACITOR,10nF	capacitor		10nF			402			
	4000	155	3100	13	31CH1-31	CAPACITOR,10uF	capacitor		10uF			603			
	4000	10	200	14	2CK1-2	CAPACITOR,12pF	capacitor		12pF			402			
	2960	20	400	15	4CL1-4	CAPACITOR,22uF	capacitor		22uF			603			
	10000	25	500	16	5CJ1-5	CAPACITOR,270pF	capacitor		270pF			402			
	10000	60	1200	17	12CA1-5 CA12 CA17-19 CA22-23 CA29	CAPACITOR,4.7uF	capacitor		4.7uF			402			
	2500	20	400	18	4CB1 CB4-6	CAPACITOR,47uF	capacitor		47uF			1812			
	200	10	200	19	2CF1-2	CAPACITOR_POLARIZED,680uF	capacitor		680uF		E				
	25	5	100	20	1FANOUT	CDCLVD1208-LVDS-FANOUT-2T08	low additive jitter (~300fs)	CDCLVD1208	DFN28+1	DFN-28-WITH-THERMAL-PAD		296-27838-1-ND			
	60	5	100	21	124MHZ	CRYSTAL	crystal	FA-128 24.0000MF10Z-W3	DFN4	CRYSTAL-SMD-2.0MMX1.6MM		SER3678CT-ND			\$1.71
	3000	15	300	22	3DEMUX_F_BHL DEMUX_F_BHL1-2	DEMUX-1T02-SN74LVC1G18	1:2 demux	SN74LVC1G18DCKR			SOT323-6-SC70	296-15569-2-ND			
do not install		10	200	23	2CLK_TRIG JTAG_R	DIFF-PAIRS-4	solder points for 4 diff pairs				DIFF-PAIR-LANDING-4-PAIRS		do not install		
	300	5	100	24	1EEPROM	EEPROM-12C-WITH-ADDRESS-PINS	i2c eeprom w/address	24LC64T-I/MC		DFN8+1		24LC64T-I/MC (avnet)			
	3000	60	1200	25	12Q2 Q6-8 Q11 Q30 Q32 Q34-36 Q38 Q42	FET-N	n-channel FET	A07400		SC-70	SOT323	785-1084-1-ND			\$0.24
					Q1 Q3-5 Q10 Q12 Q14 Q16 Q18 Q20 Q24										
	3000	95	1900	26	19Q26 Q33 Q37 Q39-41 Q44-45	FET-P	p-channel FET	A07401			SOT323	785-1085-1-ND			\$0.30
	100	10	200	27	2FF FF1	FLIP-FLOP-D	D flip-flop	SN74LVC1G175DCKR			SOT323-6-SC70	296-16998-1-ND			
	10	10	200	28	2FF2-3	FLIP-FLOP-D-INVERTING		SN74LVC1G80DCKR			SOT323-5-SC70	296-9852-1-ND			
	18	5	100	29	1FMC-LPC	FMC_LPC_VITA57	FMC LPC connector	asp-134603-01		VITA57	FMC-LPC-VITA57-MOTHERBOARD				
	17	15	300	30	3T1-3	FX8C-100S-SV	100 pin board-to-board connector	FX8C-100S-SV5			FX8C-100S-SV		FX8C-100S-SV5		
	10	5	100	31	1HUM	HUMIDITY-SENSOR-HTU21D	humidity sensor	htu21d		DFN6	DFN-6-EXPOSED-PAD-3MMX3MM	223-1144-1-ND	not washable		
	100	5	100	32	1INV1	INVERTER	inverter	SN74AUP1G14DCKR		SC70-5	SOT323-5-SC70	296-19076-1-ND			
	10	5	100	33	1JTAG_DONE PL_AUX PL_AUXIO PL_BRAM	JTAG_14PIN_2MM	JTAG connector	878311421			JTAG_14PIN_2MM_VERT	WM4224-ND	through-hole		
					PL_GTX1V0 PL_GTX1V2 PL_INT										
	9500	50	1000	34	10PS_INT_PL_L_AUX	LED	LED	SML-P11MTT86			4020402_LED	511-1652-1-ND			\$0.27
					PL_VCC0 PS_DDR_VCC0										
					PS_INT_PL_L_AUX										
	200	50	1000	35	1V0_BRAM 1V0_PINT 1V8_AUX	LT3055	LDO reg with lmon, shdn, pwrgood	LT3055EMSE#PBF		MSOP16	MSOP-16	LT3055EMSE#PBF-ND			
	100	25	500	36	1V8_AUXIO 1V8_PL_PAUX 1V8_VCC0	LT3086	LDO reg with lmon, shdn, pwrgood	LT3086EDHD#PBF		DFN16+1	DFN16+1	LT3086EDHD#PBF-ND			
	10	5	100	37	1LVDS1	LVDS_RECEIVER		SN65LVD12DBVR		SOT23-5	SOT23-5	296-6896-1-ND			
	100	5	100	38	1SN65LVD1348PW	LVDS_SN65LVD1348PW	4 channel LVDS receiver	SN65LVD1348PW			TSSOP16	296-12650-5-ND			
	100	5	100	39	1U3	LVDS_TRANSMITTER	LVDS transmitter	SN65LVDS1DBVR			SOT23-5	296-6919-1-ND			
	10	5	100	40	1MINIUSB	MINIUSB	vertical mini USB				MINIUSB-VERTICAL2	WM2072-ND	through-hole		\$3.77
	20	15	300	41	3CAL_TTL_TRIG_IN TTL_TRIG_OUT	MMCX_VERTICAL_THROUGH_HOLE	MMCX connector		734151471		MMCX_VERTICAL_THROUGH_HOLE	WM5557-ND	through-hole		
do not install		30	600	42	6X5-6 X8 X10 X12 X14	MOUNTING-HOLE	mounting hole for 6-32				MOUNTING-HOLE-6-32-SKINNY		do not install		
	96	5	100	43	1LPDDR2	MT42L64M32D1KL-25	LPDDR2 RAM	MT42L64M32D1KL-25 IT-A		BGA168	BGA-MICRON-168-BALL-KL	04X6637 (newark)			
	3000	10	200	44	2MUX_FB_HL MUX_FB_HL1	MUX-2T01-SN74AUP1T157	2:1 mux	SN74AUP1T157DCKR			SOT323-6-SC70	296-27393-2-ND			
	2	5	100	45	1127MHZ	OSCILLATOR-DIFFERENTIAL-OUTPUT	oscillator			DFN6	KC7050T-L2		do not install		
	60	5	100	46	1MOSFET1	POWER-MOSFET	power mosfet	IRLR7821TRPBF		DPAK	TO-252AA_DPAK	IRLR7821PBFCT-ND			
do not install		5	100	47	1RAW1	POWER_INPUT_PAIR	power entry solder points				POWER_INPUT_PAIR_18AWG		do not install		
do not install		5	100	48	1RAW2	POWER_INPUT_PAIR	power entry solder points				POWER_INPUT_PAIR_16AWG		do not install		
do not install		5	100	49	1RAW3	POWER_INPUT_PAIR	power entry solder points				POWER_INPUT_PAIR_20AWG		do not install		
	10	10	200	50	2PS_RESET SOC_RESET	PUSHBUTTON-NO	button				PUSHBUTTON-NO	SW10020CT-ND			\$0.91
	10	10	200	51	2QSPI_FLASH0-1	QSPI_FLASH-S25FL128SAGBHIA	QSPI flash	S25FL128SAGBH1200		BGA24	BGA-T-PBGA-24B05-6MMX8MM	1274-1078-ND			
	9168	20	400	52	4RV1-4	RESISTOR,1	resistor		1			402			
	10000	5	100	53	1RB1	RESISTOR,100	resistor		100			402			
					R1-5 R7-22 R25-26 R34-40 R43-44 R47-49										
	9792	195	3900	54	39R51-54	RESISTOR,10k	resistor		10k			402			
do not install		15	300	55	3R41 R50 R42	RESISTOR,10k	resistor		10k			402	do not install		
	10000	50	1000	56	10RE1-9 RE11	RESISTOR,121	resistor		121		402	402			
	10000	20	400	57	4RG1-4	RESISTOR,121k	resistor		121k		402	402			
	9974	15	300	58	3RH1-3	RESISTOR,12k	resistor		12k		402	402			
	10000	10	200	59	2RR1-2	RESISTOR,13.7k	resistor		13.7k			402			
	10000	10	200	60	2RJ1-2	RESISTOR,16k	resistor		16k		402	402			
	10000	20	400	61	4RAH0-3	RESISTOR,174	resistor		174			402			
	10000	15	300	62	3RM1-3	RESISTOR,196k	resistor		196k		402	402			
	10000	100	2000	63	20RL1-7 RL12-16 RL18-25	RESISTOR,1k	resistor		1k		402	402			
	10000	55	1100	64	11RC1-10 RC12	RESISTOR,200k	resistor		200k		402	402			
do not install		5	100	65	1RC11	RESISTOR,200k	resistor		200k		402	402	do not install		
	9142	45	900	66	9RAC0-8	RESISTOR,20k	resistor		20k		402	402			
	10000	30	600	67	6RZ1-6	RESISTOR,240	resistor		240		402	402			
	2000	5	100	68	1RAA1	RESISTOR,330	resistor		330		402	402			
	10000	5	100	69	1RD1	RESISTOR,340k	resistor		340k		402	402			
	10000	70	1400	70	14RS1-6 RS9-16	RESISTOR,4.7k	resistor		4.7k		402	402			
	10000	10	200	71	2RY1-2	RESISTOR,40.2	resistor		40.2		402	402			
	10000	15	300	72	3RF1-2 RF5	RESISTOR,40.2k	resistor		40.2k		402	402			
	5000	15	300	73	3RAF1-3	RESISTOR,50	resistor	RNCP1206FTD49R9	50	1206		402			
	1664	30	600	74	6RT1-6	RESISTOR,50	resistor		50		402	402			
	10000	5	100	75	1RAB1	RESISTOR,57.6k	resistor		57.6k		402	402			
	10000	35	700	76	7RD1-6 RD11	RESISTOR,60.4k	resistor		60.4k		402	402			
	10000	15	300	77	3RN1-3	RESISTOR,61.9k	resistor		61.9k		402	402			
	10000	20	400	78	4RAJ0-3	RESISTOR,69.8	resistor		69.8			402			
	19870	50	1000	79	10RU1-10	RESISTOR,7.5k	resistor		7.5k			402			
	10000	15	300	80	3RK1-3	RESISTOR,7150	resistor		7150			402			
	10000	5	100	81	1RW1	RESISTOR,8.06k	resistor		8.06k			402			
do not install		20	400	82	4RL8-11	RESISTOR,DNI	resistor		DNI		402	402	do not install		
	25	15	300	83	3D1-3	RF_PROTECTION_DIODE	protection diodes	BAP64-04W,115		SOT323	SOT323	568-1932-1-ND			\$0.29
	10	10	200	84	2DATA TRIG	SFP_CAGE_SINGLE	SFP+ cage + connector	0747540101, 1367073-1			SFP_CAGE_SINGLE	WM8591-ND, A97430CT-ND	surface mount + press-fit		\$4.46
	10	5	100	85	1TEMP	TEMPERATURE_SENSOR_I2C	i2c temperature sensor	STTS751-1		SOT-23-6	SOT23-6L	497-10662-1-ND			\$1.24
					1P0_BRAM 1P0_GTX 1P0_INT 1P0_PINT										
					1P2_DDR 1P2_GTX 1P8_AUX 1P8_AUXIO										
					1P8_PLL_PAUX 1P8_VCC0 2P5_2P9_MIO										
					2P6_VCC0 3P3_4P0_GND RAW1+ RAW2+										
do not install		95	1900	86	19RAW3+	TEST_POINT	test point				TEST_POINT_THROUGH_HOLE_SMALL	various	through-hole		\$0.24
					2PS_CLOCK 4A0	TEST_POINT	test point				TEST-POINT-SURFACE-MOUNT	various	do not install		\$0.24
	100	5	100	88	1USB	USB3320	USB transceiver (ULPI)	USB3320C-EZK-TR		QFN32	QFN-32	USB3320C-EZK-CT-ND			
	3	5	100	89	1SOC	ZYNQ-XC7Z045-FFG900	FPGA w/dual ARM cores	XC7Z045-2FFG900E		BGA900	BGA-FFG900-1MM	XC7Z045-2FFG900E-ND	assembly variant: install these on 2 boards and omit them from 2 boards		
					536	number of components per board									
purple = from SLAC					23	number of things not to install									
yellow = ordering now															