

Bill of Materials
TI DESIGNS

TIDM-TM4CFLASHSRAM

ltem	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
				Parallel	SRAM Memory Card				
				CAP, CERM, 0.1 µF, 6.3 V, +/-					
1	4	C1, C2, C4, C5	0.1uF	10%, X5R, 0402		C1005X5R0J104K		0402	
				CAP, CERM, 10 µF, 6.3 V, +/-					
2	1	C3	10 uF	20%, X5R, 0603		C0603C106M9PACTU		0603	
3	1	J1		Header, 100mil, 2x2, Tin, TH		PEC02DAAN			
				Connector 49 Pins Dual					
4	1	P1			Samtec	SAM1212-49-ND			
5	1	R1	10 Kohms	RES, 10 k, 5%, 0.063 W, 0402		CRCW040210K0JNED		0402	
6	2	U1, U2		Octal D Type Latch	Texas Instruments	SN74LV373A_PW_20		PW20	
7	1	U3	16 Mbit	ISSI 16Mbit SRAM	ISSI	IS62WV102416DBLL		TSOP48	
				Paralle	Flash Memory Card				
1	5	C1, C2, C3, C5, C6	0.1uF	10%, X5R, 0402		C1005X5R0J104K		0402	
2	1	C4	10 uF	20%, X5R, 0603		C0603C106M9PACTU		0603	
3	2	J2, J3		Header, 100mil, 2x2, Tin, TH		PEC02DAAN			
4	1	P1		Row Thru Hole	Samtec	SAM1212-49-ND			
5	7	R1, R2, R3, R4, R5, R6, R7	10 Kohms	RES, 10 k, 5%, 0.063 W, 0402		CRCW040210K0JNED		0402	
6	2	U2, U3		Octal D Type Latch	Texas Instruments	SN74LV373A_PW_20		PW20	
7	1	U4	1Gbit	Macronix 1Gbit Flash	Macronix	MX68GL1G0FHT2		TSOP56	



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EK-TM4C1294XL

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	C1	1000pF	Capacitor, 1000pF, 2kV, 20%, X7R, 1210	Kemet	C1210C102MGRACTU		1210	
		C3, C4, C5, C10, C11, C12, C13, C16, C17, C18, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30,		Capacitor, 0.1uF 16V, 10%,0402 X7R	Taiyo Yuden	EMK105B7104KV-F			
2	26	C40, C41, C42, C43, C46	0.1uF					0402	
3	1	C31	4700pF	Capacitor, 4700pF, 2kV, 10%,X7R, 1812	AVX	1812GC472KAT1A		1812	
4	2	C32, C33	3300pF	Capacitor, 3300pF, 50V, 10%, X7R, 0603	TDK	C1608X7R1H332K		0603	
5	2	C6, C14	1uF	Capacitor, 1uF , X5R, 10V, Low ESR, 0402	Johanson Dielectrics Inc	100R07X105KV4T		0402	
6	3	C7, C15, C20	2.2uF	Capacitor, 2.2uF, 16V, 10%, 0603, X5R	Murata	GRM188R61C225KE15D		0603	
7	6	C8, C9, C44, C45, C47, C48	12pF	Capacitor, 12pF, 50V, 5%, 0402, COG	Murata	GRM1555C1H120JZ01D		0402	
8	5	D0, D1, D2, D3, D4		Green LED 0603	Everlight	19-217/G7C-AL1M2B/3T		0603	
9	7	J1, J2, J3, J4, J5, J6, J7		Jumper, 0.100, Gold, Black, Open	ЗМ	969102-0000-DA			
40	1	JP1		Header, 2x3, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate,	FCI	67996-206HLF			
10	2	JP2, JP3		gold Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate	FCI	68001-102HLF			
12	2	JP4, JP5		Header, 2x2, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate	FCI	67997-104HLF			
13	8	R1, R2, R3, R4, R5, R29, R35, R44	10 KOhm	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL		0402	
14	3	R17, R26, R36	100 KOhm	100k 5% 0402 resistor smd	Rohm	MCR01MRTJ104		0402	
15	2	R18, R51	100 Ohm	Resistor 0402 100 ohm 5%	Rohm	MCR1MRTJ101		0402	
16	4	R23, R21, R22, R24	49.9 Ohm	Resistor 49.9 ohm 0402. 1 %	Rohm	MCR01MRTF49R9		0402	
17	1	R25	4.87 Kohm	Resistor 4.87k 1% 0402 smd	Rohm	MCR01MRTF4871		0402	
18	1	R28	5.6 Kohm	Resistor, 5.6k ohm, 1/10W, 5%, 0402	Panasonic	ERJ-2GEJ562X		0402	
19	4	R32, R43, R45, R46	75 Ohm	resistor 75 ohm 0402 5%	Rohm	MCR01MRTJ750		0402	
20	2	R34, R52	1 MOhm	Resistor, 1M OH, 1/10W, 5% 0603 SMD	Panasonic	ERJ-3GEYJ105V		0603	
21	1	R38	51 Ohm	Resistor, 51 ohm, 1/10W, 5%, 0402	Panasonic	ERJ-2GEJ510X		0402	
22	1	R42	1 MOhm	Resistor, 1M ohm, 1/10W, 5%, 0402	Rohm	MCR01MRTF1004		0402	
23	1	R47	1 MOhm	RES 1M OHM 5% 1206 TF	Panasonic	ERJ-8GEYJ105V		1206	
24	2	R49, R50	2 Kohm	Resistor, 2.0k ohm, 1/10W, 5%, 0402	Panasonic	ERJ-3GEYJ202V		0402	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
	12	R6, R7, R8, R10, R11, R15,		Resistor, 0 ohm, 1/10W, 5%, 0402	Panasonic	ERJ-2GE0R00X			
05		R16, R19, R20, R39, R40,	0.01					0.400	
25	5	R41 R9, R27, R30, R31, R33	0 Ohm	Resistor, 330 ohm, 1/10W, 5%,	V	RC0402FR-07330RL		0402	
26	э	R9, R27, R30, R31, R33	330 Ohm	0402	Yageo	RC0402FR-07330RL		0402	
20	4	RESET, USR SW1,	330 OIIII	Switch, Tact 6mm SMT, 160gf	Omron	B3S-1000		0402	
27	1	USR SW2, WAKE		Owion, ruot omin own, roogi	Omion	200 1000			
	1	U1		Tiva, MCU TM4C1294NCPDT 128	Texas Instruments	TM4C1294NCPDT			
				QFP with Ethernet MAC + PHY					
28								TQFP-128	
	1	U10		Transformer, ethernet, 1 to 1.	Pulse Electronics	HX1198FNL			
29				SOIC 16		011/1/10 0 4 707		SOIC-16	_
30	1	U13		Diode, 8 chan, +/-15KV, ESD	Semtech	SLVU2.8-4.TBT		SO-8	
30	1	U14		Protection Array, SO-8 Connector, RJ45 NO MAG,	TE Connectivity	1-406541-5		50-8	
31	'	014		shielded THRU HOLE	TE Connectivity	1-406541-5			
31	2	U2, U3		IC 4CH ESD SOLUTION,	Texas Instruments	TPD4S012DRYR			
32	-	02, 00		W/CLAMP 6SON	TOXAG ITIGITATION	11 B40012BK11K			
33	1	U20		TIVA MCU TM4C123GH6PMI	Texas Instruments	TM4C123GH6PMI		QFP-64	
**	1	U22		USB Micro B receptacle right angle	FCI	10118194-0001LF			
34				with guides					
	1	U4		Fault protected power switch, dual	Texas Instruments	TPS2052BDRBR			
35				channel, 8-SON					
	1	U5		3.3V LDO TI TPS73733DRV fixed	Texas Instruments	TPS73733DRV			
36				out 5V in					_
07	1	U6		Header 2x5, 0.050, SM, Vertical	Samtec	SHF-105-01-S-D-SM			
37	1	U7		Shrouded USB Micro AB receptacle, Right	Hirose	ZX62D-AB-5P8			
38	'	07		angle with through guides	Hirose	ZX62D-AB-5P8			
30	4	X6, X7, X8, X9		Header, 2x10, T-Hole Vertical	Samtec	SSW-110-23-S-D			+
39		7.6, 7.1, 7.6, 7.6		unshrouded stacking	Carrico	0011 110 20 0 0			
40	1	Y1	25 MHz	Crystal 25 MHz 3.2 x 2.5 mm	NDK	NX3225GA-25.000M-STD-CRG-2			
	1	Y2		Crystal 16 MHz 3.2 x 2.5 mm 4 pin	NDK	NX3225GA-16.000M-STD-CRG-2			
41			16 MHz						
	1	Y3		Crystal, 32.768 KHz Radial Can	Citizen Finetech	CMR200T-32.768KDZY-UT			
42			32768 Hz		Miyota				
			Not Populate	List (Shown for Information only)					
43	1	C2	0.1uF	Capacitor, 0.1uF 16V, 10%, 0402 X7R	Taiyo Yuden	EMK105B7104KV-F		0402	
43	3	H1, H4, H6	U.Tur	Screw, #4 x 0.625" Pan Head,	McMaster	90077A112		0402	
	3	111,114,110		Sheet Metal, Phillips/Slotted (for	iviciviastei	30077A112			
44				fan)					
	3	R12, R12, R14		Resistor, 5.6k ohm, 1/10W, 5%,	Panasonic	ERJ-2GEJ562X			_
45			5.6 KOhm	0402				0402	
46	1	R48	52.3 KOhm	Resistor 0402 1% 52.3k	Rohm	TRR01MZPF5232		0402	
	17	TP1, TP2, TP3, TP4, TP5,		Terminal, Test Point Miniature	Keystone	5000			
		TP6, TP7, TP8, TP9, TP10,		Loop, Red, T-Hole					
47		TP11, TP12, TP13, TP14,							
47		TP15, TP16, TP17	1	Header Ort 0400 Title	FOL	C7007 4441 II F			+
	1	X1		Header, 2x7, 0.100, T-Hole, Vertical, Unshrouded, 0.230 Mate	FCI	67997-114HLF			
48				vertical, Unshrouded, 0.230 Mate					
40	1	X11A	1	Valvano style bread board	Samtec	TSW-149-09-F-S-RE			+
	'	71.173		connect. Right Angle extended, 1 x		1011 1-10-05-1 -O-IVE			
49				49 0.100 pitch.					
50	1	X11B			Samtec	TSW-149-08-F-S-RA			1

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