

BOM

Title TS2 68000 Single Board Computer
Company Jeff Tranter
Revision 2
Date Issue 2016-12-03

Reference	Value	Type	# Pins	Comments
C1	0.1uF	capacitor	n/a	
C2	0.1uF	capacitor	n/a	
C3	0.47uF	capacitor	n/a	
C4	100 uF 16V	capacitor	n/a	Power supply filter
C5, etc.	0.1uF	capacitor	n/a	Bypass caps, one per IC (31 needed)
D1	RESET/HALT	diode	n/a	LED, red
D2	POWER	diode	n/a	LED, green
J1	Baud rate select	jumper	n/a	1 6-position jumper (or hardwire)
J2	DTACK speed select	jumper	n/a	4 2-position jumpers or 4 pos DIP switch
P1	FTDI (TERMINAL)	socket	6	6 pin sip socket
P2	FTDI (HOST)	socket	6	6 pin sip socket
R1	1M	resistor	n/a	
R2	4.7K	resistor	n/a	All 20 4.7K resistors use 8-position SIPs (qty 3)
R3	4.7K	resistor	n/a	
R4	1M	resistor	n/a	
R5	4.7K	resistor	n/a	
R6	470	resistor	n/a	
R7	4.7K	resistor	n/a	
R8	4.7K	resistor	n/a	
R9	4.7K	resistor	n/a	
R10	4.7K	resistor	n/a	
R11	4.7K	resistor	n/a	
R12	4.7K	resistor	n/a	
R13	4.7K	resistor	n/a	
R14	4.7K	resistor	n/a	
R15	4.7K	resistor	n/a	
R16	4.7K	resistor	n/a	
R17	4.7K	resistor	n/a	
R20	15M	resistor	n/a	Unusual value, used two 7.5M resistors in series.

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R21	4.7K	resistor	n/a	
R22	4.7K	resistor	n/a	
R23	4.7K	resistor	n/a	
R24	4.7K	resistor	n/a	
R25	330	resistor	n/a	
R26	4.7K	resistor	n/a	
R27	4.7K	resistor	n/a	
SW1	RESET	switch	n/a	SPDT momentary
SW2	SINGLE STEP/RUN	switch	n/a	SPDT
SW3	STEP	switch	n/a	SPDT momentary
U1	555	IC, timer	8	
U2	8 MHz	IC, oscillator	14	
U3	74LS00	IC, quad 2-input NAND	14	
U4	74LS06	IC, OC hex inverter	14	
U5	74LS04	IC, hex inverter	14	
U6	68000	IC, CPU	64	8 MHz
U7	74LS08	IC, quad 2-input AND	14	
U8	74LS32	IC, quad 2-input OR	14	
U9	74LS32	IC, quad 2-input OR	14	
U10	74LS32	IC, quad 2-input OR	14	
U11	HM6264	IC, static RAM	28	
U12	28C64	IC, EEPROM	28	Or 2764 EPROM
U13	HM6264	IC, static RAM	28	
U14	28C64	IC, EEPROM	28	Or 2764 EPROM
U15	HM6264	IC, static RAM	28	
U16	28C64	IC, EEPROM	28	Or 2764 EPROM
U17	HM6264	IC, static RAM	28	
U18	28C64	IC, EEPROM	28	Or 2764 EPROM
U19	74LS20	IC, dual 4-input NAND	14	
U20	74LS74	IC, dual JK flip-flop	14	
U21	74LS161	IC, counter	16	
U22	74LS161	IC, counter	16	
U23	74LS74	IC, dual JK flip-flop	14	
U24	74LS260	IC, dual 5-input NOR	14	
U25	74LS260	IC, dual 5-input NOR	14	

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U26	74LS138	IC, decoder	16	
U27	25LS2548	IC, decoder	20	
U29	6850	IC, ACIA	24	
U30	6850	IC, ACIA	24	
U31	MC14411	IC, baud rate generator	24	
Y1	1.8432MHz	crystal	n/a	
n/a	IC sockets	misc.	various	Wirewrap type. May need to make 64-pin from two 40-pin sockets.
n/a	wire	misc.	n/a	Wirewrap wire
n/a	protoboard	misc.	n/a	