

BOM

Title TS2 68000 Single Board Computer
Company Jeff Tranter
Revision 2
Date Issue 2016-11-27

Reference	Value	# Pins	Comments
C1	0.1uF	n/a	
C2	0.1uF	n/a	
C3	0.47uF	n/a	
C4	100 uF 16V	n/a	Power supply filter
C5, etc.	0.1uF	n/a	Bypass caps, one per IC (31 needed)
D1	RESET/HALT	n/a	LED, red
D2	POWER	n/a	LED, green
J1	Baud rate select	n/a	1 6-position jumper
J2	DTACK speed select	n/a	4 2-position jumpers
P1	FTDI (TERMINAL)	6	6 pin sip socket
P2	FTDI (HOST)	6	6 pin sip socket
R1	1M	n/a	
R2	4.7K	n/a	All 20 4.7K resistors use 8-position SIPs (qty 3)
R3	4.7K	n/a	
R4	1M	n/a	
R5	4.7K	n/a	
R6	470	n/a	
R7	4.7K	n/a	
R8	4.7K	n/a	
R9	4.7K	n/a	
R10	4.7K	n/a	
R11	4.7K	n/a	
R12	4.7K	n/a	
R13	4.7K	n/a	
R14	4.7K	n/a	
R15	4.7K	n/a	
R16	4.7K	n/a	
R17	4.7K	n/a	
R20	15M	n/a	
R21	4.7K	n/a	
R22	4.7K	n/a	
R23	4.7K	n/a	
R24	4.7K	n/a	
R25	330	n/a	
R26	4.7K	n/a	
R27	4.7K	n/a	
SW1	RESET	n/a	SPDT momentary
SW2	SINGLE STEP/RUN	n/a	SPDT momentary
SW3	STEP	n/a	SPDT momentary
U1	555	8	
U2	8 MHz	14	
U3	74LS00	14	
U4	74LS06	14	

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U5	74LS04	14	
U6	68000	64	8 MHz
U7	74LS08	14	
U8	74LS32	14	
U9	74LS32	14	
U10	74LS32	14	
U11	HM6264	28	
U12	28C64	28	Or 2764
U13	HM6264	28	
U14	28C64	28	Or 2764
U15	HM6264	28	
U16	28C64	28	Or 2764
U17	HM6264	28	
U18	28C64	28	Or 2764
U19	74LS20	14	
U20	74LS74	14	
U21	74LS161	16	
U22	74LS161	16	
U23	74LS74	14	
U24	74LS260	14	
U25	74LS260	14	
U26	74LS138	16	
U27	25LS2548	20	
U28	74LS04	14	
U29	6850	24	
U30	6850	24	
U31	MC14411	24	
Y1	1.8432MHz	n/a	
n/a	IC sockets	misc	Wirewrap
n/a	wire	n/a	Wirewrap wire
n/a	protoboard	n/a	

To Order

Part	Quantity	Comments
74LS04	2	
74LS08	1	
74LS20	1	
74LS32	3	
74LS74	2	
74LS138	1	
74LS260	2	
2764 or 28C64	4	
6850	2	
HM6264	4	
MC14411	1	
1.8432 Mhz Crystal	1	
15M resistor	1	
4700 ohm SIP	2	Need 16 resistors total
wirewrap wire	-	
8-pin wirewrap socket	1	
14-pin wirewrap socket	14	
16-pin wirewrap socket	3	
20-pin wirewrap socket	1	
24-pin wirewrap socket	3	
28-pin wirewrap socket	8	
64-pin wirewrap socket	1	Use two 40-pin?
sockets for pullups, etc.		
6-pin FTDI headers	2	