

BOM

Title	TS2 68000 Single Board Computer
Company	Jeff Tranter
Revision	2
Date Issue	2016-11-28

Reference	Value	# Pins
C1	0.1uF	n/a
C2	0.1uF	n/a
C3	0.47uF	n/a
C4	100 uF 16V	n/a
C5, etc.	0.1uF	n/a
D1	RESET/HALT	n/a
D2	POWER	n/a
J1	Baud rate select	n/a
J2	DTACK speed select	n/a
P1	FTDI (TERMINAL)	6
P2	FTDI (HOST)	6
R1	1M	n/a
R2	4.7K	n/a
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
SW2	SINGLE STEP/RUN	n/a
SW3	STEP	n/a
U1	555	8
U2	8 MHz	14
U3	74LS00	14
U4	74LS06	14

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U5	74LS04	14
U6	68000	64
U7	74LS08	14
U8	74LS32	14
U9	74LS32	14
U10	74LS32	14
U11	HM6264	28
U12	28C64	28
U13	HM6264	28
U14	28C64	28
U15	HM6264	28
U16	28C64	28
U17	HM6264	28
U18	28C64	28
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
n/a	wire	n/a
n/a	protoboard	n/a

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Comments

Power supply filter
Bypass caps, one per IC (31 needed)
LED, red
LED, green
1 6-position jumper (or hardwire)
4 2-position jumpers or 4 pos DIP switch
6 pin sip socket
6 pin sip socket

All 20 4.7K resistors use 8-position SIPs (qty 3)

Unusual value

SPDT momentary
SPDT
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8 MHz

Or 2764

Or 2764

Or 2764

Or 2764

Wirewrap

Wirewrap wire

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	