

COMPONENT VALUE Q NOTES SOURCE

ICs				
UR1 (Power)	7812CT	1	POS 12v 1A regulator	
UR2 (Power)	7912CT	1	NEG 12v 1A regulator	
UR3 (Power)	7805CT	1	POS 5v 1.5A regulator	
U1 (Digital)	74LS373 Octal Latch	1		
U2 (Digital)	1489 RS232 Driver	1		
U3 (Digital)	1488 Quad driver	1		
U4 (Digital)	74LS14 Hex Inverter	1		
U5 (Digital)	2716/32 EPROM (Also i	1		
U6 (Digital)	P8031 Microcontroller	1		
U1 (Analog)	LM393 Comparator	1		
U2 (Analog)	CA3096?? Transistor ar	1	PART NUM	
UX (Analog)	CA3280 OpAMP	1	VERIFY	
U3 (Analog)	CA3280 OpAMP	1		
Q1 (Analog)		1		
Q2 (Analog)	2N4401	1		
VR1 (Analog)	78L05 regulator	1		
UNLABLED IR DRIVE (Analog)	2N5305	1		

Capacitors				
C2 (Power)	220uF 25V Electrolytic	1		
C3 (Power)	220uF 25V Electrolytic	1		
C6 (Power)	4.7uF Electrolytic	1	Voltage?	
C8 (Power)	1000uF 25v	1		
C1 (Digital)	0.1uF	1	VERIFY ALL SPECS	
C4 (Digital)	20pF	1	Voltage, type?	
C5 (Digital)	20pF	1	Voltage, type?	
C7 (Digital)	10UF	1	Voltage, type?	
C9 (Digital)	0.1uF	1	VERIFY ALL SPECS	
C10 (Digital)	0.1uF	1	VERIFY ALL SPECS	
C1 (Analog)	4.7uF	1	VERIFY ALL SPECS	
C2 (Analog)	4.7uF	1	VERIFY ALL SPECS	
C3 (Analog)	4.7uf	1	VERIFY ALL SPECS	
C6 (Analog)	4.7uf tantalum	1	VERIFY ALL SPECS	
C7 (Analog)	0.1uF	1	VERIFY ALL SPECS	
C8 (Analog)	60pF	1	VERIFY ALL SPECS	
C9 (Analog)	4.7uF	1	VERIFY ALL SPECS	
C10 (Analog)	1uF tantalum	1	VERIFY ALL SPECS	
C11 (Analog)	01uF	1	VERIFY ALL SPECS	
C12 (Analog)	240pF	1	VERIFY ALL SPECS	
C13 (Analog)	560uF	1	VERIFY ALL SPECS	
C14 (Analog)	Capacitor	1	UNKNOWN SPECS	
C15 (Analog)	160uF	1	VERIFY	
UNLABLED IR (Analog)	22uF	1		

Diodes				
CR1 (Power)	3N247	1	Bridge rectifier	
CR2 (Power)	1N4001	1		
CR3 (Power)	1N4001	1		
CR4 (Digital)	1N4001	1		
CR 18-21 RX IR (Analog)	TIL 100 Photodiode	4		
TX IR (Analog)	??	36	UNKNOWN SPECS	
CF9 (Analog)	HLMP3301 LED	1		
CR22 (Analog)	1N914	1		
CR26 (Analog)	1N914	1	POSSIBLY DELETED	

Resistors		
R6 (Analog)	160	VERIFY
R8 (Analog)	20k	1 VERIFY
R9 (Analog)	22M	1 VERIFY
R11 (Analog)	2k	1 VERIFY
R12 (Analog)	18k	1 VERIFY
R13 (Analog)	1k OR 100	1 VERIFY
R14 (Analog)		POSSIBLY DELETED
R17 (Analog)	6.2k	1 VERIFY
R18 (Analog)	10k	1 VERIFY
R19 (Analog)	100	1 VERIFY
R20 (Analog)	4.7k	1 VERIFY
R21 (Analog)	10k	1 VERIFY
R22 (Analog)	1M	1 VERIFY
R27 (Analog)	39k	1 VERIFY
R28 (Analog)	10k	1 VERIFY
R29 (Analog)	100	1 VERIFY
UNLABLED (Analog)	100 1/4 Watt	2

MISC		
Jack 1 (Power)		
L1 (Power)	1 MH filter inductor	1 VERIFY
SW1 (Digital)	4 pos dip switch	1
Y1 (Digital)	Crystal 11.059 Mhz?	1 VERIFY, common freq
L1 (Analog)	22000uH inductor	1 VERIFY
L2 (Analog)	10000uH inductor	1 VERIFY
12VAC 10 VA Power Supply		1

DOCS

https://avrtc.miraheze.org/wiki/Topo_II_Base_Communicator_Board
<https://vkessels.home.xs4all.nl/articles/topoi-firmware.html>

SPECS

Comm is 9600, 8/N/1