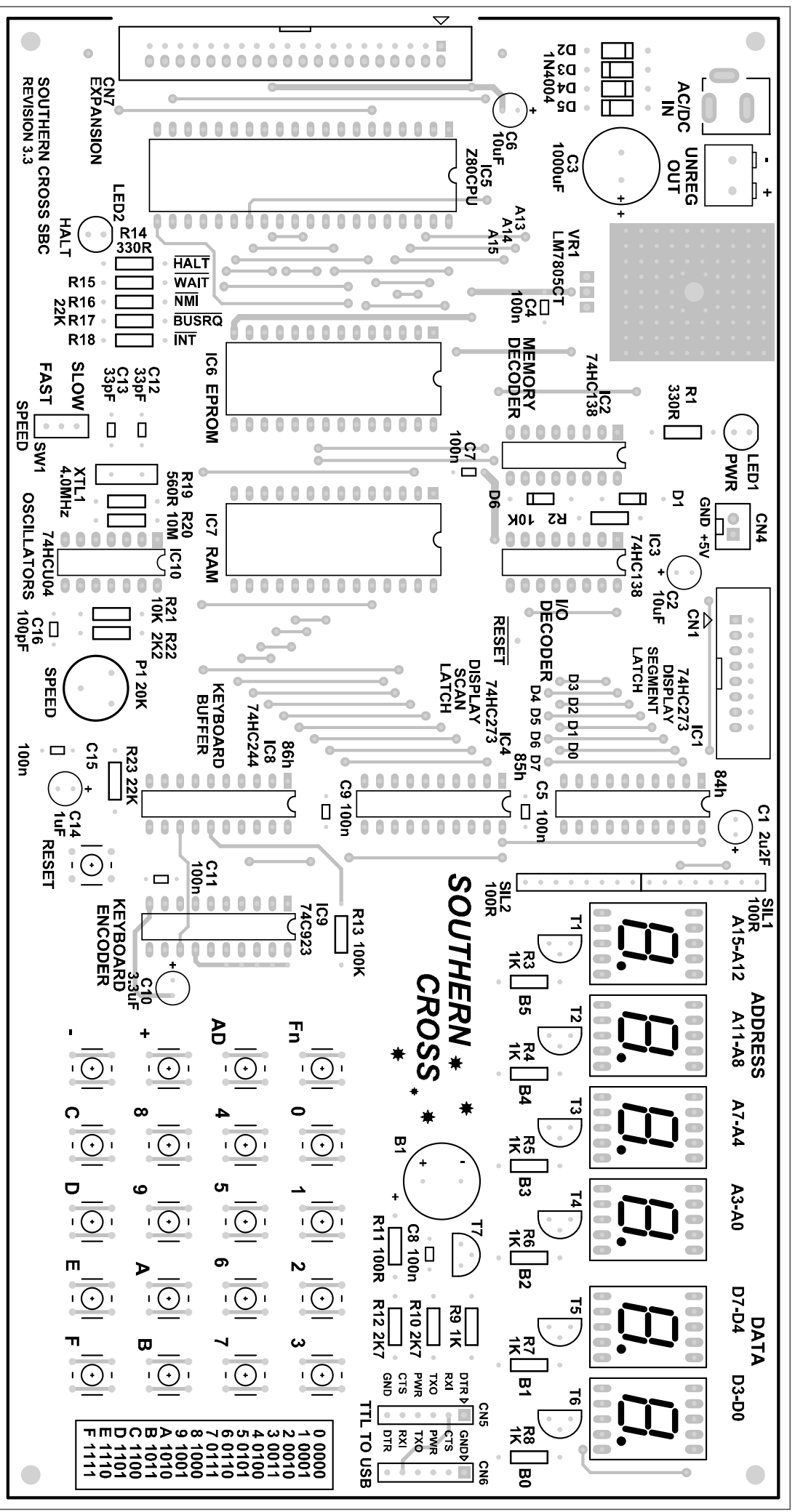


# Southern Cross Computer

Rev. 3.3

## Component Overlay



## Bill of Material

Qty	Designator	Description
2	R1,R14	330R ¼ W 5% Resistor
1	R2,R21	10k ¼ W 5% Resistor
7	R3,R4,R5,R6,R7,R8,R9	1k ¼ W 5% Resistor
2	R10,R12	2k7 ¼ 5%W Resistor
1	R11	100R ¼ W 5% Resistor
1	R13	100k ¼ W 5% Resistor
5	R15,R16,R17,R18,R23	22k ¼ W 5% Resistor
1	R19	560R ¼ W 5% Resistor
1	R20	10M ¼ W 5% Resistor
1	R22	2k2 ¼ W 5% Resistor
2	SIL1,SIL2	100R Resistor Network 8 Pin 4 Individual Resistors
4	D2,D3,D4,D5	1N4004 Diode
2	D1,D6	1N4148, 1N914 Small Signal Diode
1	IC10	14 Pin Dual Wipe IC Socket
2	IC2,IC3	16 Pin Dual Wipe IC Socket
4	IC1,IC4,IC8,IC9	20 Pin Dual Wipe IC Socket
2	IC6,IC7	28 Pin Dual Wipe IC Socket
1	IC5	40 Pin Dual Wipe IC Socket
1	C1	2u2F 50V Electrolytic Capacitor
2	C2,C6	10uF 50V Electrolytic Capacitor
1	C3	1000uF 35V Electrolytic Capacitor
7	C4,C5,C7,C8,C9,C11,C15	100nF 50V Monolithic Ceramic Capacitor
1	C10	3u3F 50V Electrolytic Capacitor
2	C12,C13	33pF 50V Monolithic Ceramic Capacitor
1	C14	1uF 50V Electrolytic Capacitor
1	C16	100pF 50V Monolithic Ceramic Capacitor
7	T1,T2,T3,T4,T5,T6,T7	NPN Transistor BC337 40V TO-92 General Purpose
6	LD1,LD2,LD3,LD4,LD5,LD6	0.56" 7 Segment LED Display, Common Cathode
2	LED1,LED2	3mm Red LED
1	CN1	Straight Box Header, 16 Way 2 x 8 Rows
1	CN2	Power Jack for Barrel Connector O.D. 5.5 / I.D. 2.1 mm
1	CN3	2 Way Screw Terminal Block
1	CN4	2 Way 0.1" / 2.54mm Pin Header
1	CN5 or CN6	6 Way 0.1" / 2.54mm Pin Header
1	CN7	Straight Box Header 40 Way 2 x 20 Rows
1	SW1	3 Way 0.1" / 2.54mm Pin Header + Shunt

Continued

# Southern Cross Computer Rev. 3.3

## Bill of Material Continued

Qty	Designator	Description
21	S1,S2,S3,S4,S5,S6,S7,S8,S9, S10,S11,S12,S13,S14,S15,S16, S17,S18,S19,S20,S21	Pushbuttons, Tactile Switch OMRON B3F 6mm
1	P1	20k VTP Cermet Trimpot
1	B1	Mini Magnetic Transducer 0.25" 6.35mm
1	VR1	LM7805CT 5V Fixed Voltage Regulator TO-220
1	XTL1	4MHz Crystal HC49 / HC49U
1	VR1	TO-220 Heatsink 19 x 15 x 10 mm M3x8 Machine Screw Zn, M3 Hex Nut Zn, M3 split washer.
2	IC1,IC4	74HC273 Octal D Flip-Flops with Clear
2	IC2,IC3	74HC138 3-to-8 Line Decoder
1	IC5	Z84C0008PEG CMOS Z80 CPU 8MHz 40 pin DIP
1	IC6	AT28C64B-15PU 8k x 8 DIP28 EEPROM
1	IC7	6264 8k x 8 DIP28 SRAM
1	IC8	74HC244 Octal TRI-STATE Buffer DIP20
1	IC9	MM74C923N 20 Key Keyboard Encoder DIP20
1	IC10	74HCU04 Hex Inverter
1	PCB	PCB Southern Cross SBC Revision 3.3

### NOTES:

- Designators Increment from the top left to right, top to bottom of the PCB.
- The MM74C923 is obsolete and no longer manufactured, however they can still be found on Ebay.

Alternatively you can use the software scanned keyboard built into the monitor and not use a MM74C923 at all. There is a modification procedure in this folder.