

## TestosterICs 1.0 Bill of Materials

David Diaz | 26 July 2001

### Packaging, Cables, & Misc.

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
Main package		Polycase	JB-55	Polycase	JB-55
PDC package		Polycase	KT-40	Polycase	KT-40
D-Sub high density 15-pin cable, male-male		National Tech	10H1-01106	National Tech	10H1-01106
D-Sub 9-pin null modem cable, female-female		Assmann	AK143-3	Digi-Key	AE1033-ND
AC adaptor, 5V DC		CUI Stack	DPS050280U-P5P	Digi-Key	T930-P5P-ND
Shorting jumper, .1"		N/A	N/A	Digi-Key	S9002-ND
7404 hex inverter		Texas Instruments	SN74LS04N	Digi-Key	296-1629-5-ND
#4-40 x 1/4" machine screws		N/A	N/A	Digi-Key	H142-ND
#4-40 x .312" jack screws		Keystone	7231	Digi-Key	7231K-ND
Rubber mounting feet		Serpac	SR52	Digi-Key	SR52-ND

### Brain Board

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
1.5K carbon film resistor (1/4 W)	1	N/A	N/A	Digi-Key	1.5KQBK-ND
10K carbon film resistor (1/4 W)	1	N/A	N/A	Digi-Key	10KQBK-ND
1M carbon film resistor (1/4 W)	1	N/A	N/A	Digi-Key	1.0MQBK-ND
18 pF ceramic thru-hole capacitor	1	N/A	N/A	Digi-Key	P4840-ND
47 pF ceramic thru-hole capacitor	1	N/A	N/A	Digi-Key	P4845-ND
0.01 uF polyester thru-hole capacitor	4	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	8	N/A	N/A	Digi-Key	P4593-ND
22 uF radial polarized capacitor	1	N/A	N/A	Digi-Key	P10318-ND
RS-232 Transceiver	1	Maxim	MAX232ACPE	Cam RPC	MAX232ACPE
8-pin DIP socket	2	N/A	N/A	Digi-Key	ED58083-ND
16-pin DIP socket	1	N/A	N/A	Digi-Key	ED58163-ND
1.8432 MHz crystal oscillator	1	CTS Reeves	MP018S	Digi-Key	CTX067-ND
6.00 MHz clock oscillator	1	Epson	SG-531	Digi-Key	SE1206-ND
5V EEPROM	1	Atmel	AT17C128-10PC-ND	Pioneer	AT17C128-10PC
Xilinx Spartan FPGA	1	Xilinx	XCS10-3VQ100C	Insight	XCS10-3VQ100C
16550 UART	1	Texas Instruments	TL16C550CN	Digi-Key	296-10155-5-ND
D-Sub 9-pin connector, male	1	AMP	747250-4	Digi-Key	A2096-ND
D-Sub high density 15-pin connector, female	1	AMP	748390-5	Digi-Key	A2091-ND
Power switch, board mount	1	C&K Components	D501J12S2AHQF	Digi-Key	CKC2023-ND
Power jack, board mount	1	CUI Stack	PJ-102A	Digi-Key	CP-102A-ND

### 5V Pin Electronics Card

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
10K carbon film resistor (1/4 W)	1	N/A	N/A	Digi-Key	10KQBK-ND
0.01 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4593-ND
8-pin DIP socket	1	N/A	N/A	Digi-Key	ED58083-ND
Xilinx Spartan FPGA	1	Xilinx	XCS10-3VQ100C	Insight	XCS10-3VQ100C
5V EEPROM	1	Atmel	AT17C128-10PC-ND	Pioneer	AT17C128-10PC
Molex 80-pin board-board receptacle	1	Molex	15-92-2080	Force	15-92-2080

### 3.3V Pin Electronics Card

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
10K carbon film resistor (1/4 W)	1	N/A	N/A	Digi-Key	10KQBK-ND
0.01 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4593-ND
8-pin DIP socket	1	N/A	N/A	Digi-Key	ED58083-ND
Xilinx Spartan XL FPGA	1	Xilinx	XCS10XL-4VQ100C	Insight	XCS10XL-4VQ100C
3.3V EEPROM	1	Atmel	AT17LV128-10PC-ND	Pioneer	AT17LV128-10PC
3.3V Voltage Regulator	1	National Semi.	LM3940IT-3.3	Digi-Key	LM3940IT-3.3-ND
Molex 80-pin board-board receptacle	1	Molex	15-92-2080	Force	15-92-2080

### Variable Voltage Pin Electronics Card

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
10K carbon film resistor (1/4 W)	2	N/A	N/A	Digi-Key	10KQBK-ND
0.01 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	2	N/A	N/A	Digi-Key	P4593-ND
84-pin PGA socket	1	Aries	84-PGM11010-10	Aries	84-PGM11010-10
HMC Variable Voltage Pin Electronics IC	1	MOSIS/AMI	N/A	MOSIS	N/A
Molex 80-pin board-board receptacle	1	Molex	15-92-2080	Force	15-92-2080

### 40-pin DUT Card

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
220 ohm carbon film resistor (1/4 W)	3	N/A	N/A	Digi-Key	220QBK-ND
0.01 uF polyester thru-hole capacitor	3	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	3	N/A	N/A	Digi-Key	P4593-ND
22 uF radial polarized capacitor	1	N/A	N/A	Digi-Key	P10318-ND
20-pin header	6	N/A	N/A	Digi-Key	S1012-20-ND
40-pin ZIF socket	1	Aries	40-6554-11	Digi-Key	A307-ND
Molex 80-pin board-board header	1	Molex	15-92-1080	Force	15-92-1080
D-Sub high density 15-pin connector, female	1	AMP	748390-5	Digi-Key	A2091-ND
Banana socket, board mount, black	1	N/A	N/A	Mouser	164-6218
Banana socket, board mount, red	1	N/A	N/A	Mouser	164-6219
LED, red	1	Lumex	SSL-LX2573SRD	Digi-Key	67-1049-ND
LED, green	1	Lumex	SSL-LX2573GD	Digi-Key	67-1046-ND
LED, amber	1	Lumex	SSL-LX2573AD	Digi-Key	67-1045-ND

### 256-pin DUT Card

Component	Quantity	Manufacturer	Mfg. Part No.	Reseller	Reseller Part No.
220 ohm carbon film resistor (1/4 W)	3	N/A	N/A	Digi-Key	220QBK-ND
0.01 uF polyester thru-hole capacitor	6	N/A	N/A	Digi-Key	P4582-ND
0.1 uF polyester thru-hole capacitor	6	N/A	N/A	Digi-Key	P4593-ND
22 uF radial polarized capacitor	1	N/A	N/A	Digi-Key	P10318-ND
32-pin header	24	N/A	N/A	Digi-Key	S1012-32-ND
289-pin ZIF socket	1	Aries	289-PRS17001-12	Digi-Key	A316-ND
Molex 80-pin board-board header	4	Molex	15-92-1080	Force	15-92-1080
D-Sub high density 15-pin connector, female	1	AMP	748390-5	Digi-Key	A2091-ND
Banana socket, board mount, black	1	N/A	N/A	Mouser	164-6218
Banana socket, board mount, red	1	N/A	N/A	Mouser	164-6219
LED, red	1	Lumex	SSL-LX2573SRD	Digi-Key	67-1049-ND
LED, green	1	Lumex	SSL-LX2573GD	Digi-Key	67-1046-ND
LED, amber	1	Lumex	SSL-LX2573AD	Digi-Key	67-1045-ND

Vendor	Website	Phone No.
Digi-Key	<a href="http://www.digikey.com">www.digikey.com</a>	800 344 4539
Mouser Electronics	<a href="http://www.mouser.com">www.mouser.com</a>	800 346 6873
Force Electronics	<a href="http://www.force-elec.com">www.force-elec.com</a>	877 588 9071
Aries Electronics	<a href="http://www.arieselec.com">www.arieselec.com</a>	908 996 6841
Pioneer-Standard Electronics	<a href="http://www.pios.com">www.pios.com</a>	800 289 4350
Cam RPC Electronics	<a href="http://www.camrpc.com">www.camrpc.com</a>	800 724 0675
Polycase	<a href="http://www.polycase.com">www.polycase.com</a>	800 248 1233
Nu Horizons Electronics	<a href="http://www.nuhorizons.com">www.nuhorizons.com</a>	800 884 5049
Cablewholesale.com / National Technology	<a href="http://www.cablewholesale.com">www.cablewholesale.com</a>	888 212 8295
Insight Electronics	<a href="http://www.insight-electronics.com">www.insight-electronics.com</a>	888 488 4133