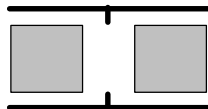


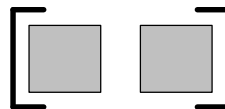
# GPU Bill of Materials

Part Name	Manufacturer	Manu. Part No.	Description	Orient.	Value	Qty	Ref Des	Notes
1 CDC	Panasonic	ECJ-2FB1C225K	decoupling cap in 805 package		2.2 uF	44	C5,CDC2,CDC4,CDC5,CDC7,CDC10-CDC12,CDC14,CDC18,CDC19,CDC22,CDC25,CDC28-CDC33,CDC36-CDC42,CDC44-CDC48,CDC50-CDC57,CDC59-CDC63	1. CDC reference designators are omitted--see diagram below. 2. Do not install the CDC nearest U1.
2 CAPACITOR	Panasonic	ECJ-2VB1C224K	.22 uF cap		.22 uF	1	C3	805
3 CAPACITOR			47 nF cap		47 nF	1	C1	805
4 CAPACITOR			10 pF cap		10 pF	1	C4	805
5 RESISTOR			30 resistor		30	4	R3,R5,R6,R13	805
6 RESISTOR			45.3 resistor		45.3	1	R7	805
7 RESISTOR			220 resistor		220	2	R8,R9	805
8 RESISTOR			4.7k resistor		4700	2	R10,R11	805
9 RESISTOR			4.7k resistor		4700	1	R12	805
10 RESISTOR			20k resistor		20000	3	R1,R2,R4	805
11 ACF451832-ACFLAND	Panasonic	EXC-CET103U	EMI Filter			1	U3	
12 TC3528	Panasonic	ECS-T1CX106R	tantalum capacitor in B package	Yes	10 uF	1	C2	3528
13 TDC	Panasonic	EEJ-L1CC336R	low-ESR tantalum capacitor in C package	Yes	33 uF	6	TDC1-TDC4,TDC6,TDC7	TDC reference designators are omitted--see diagram below.
14 LED	Lumex	CCL-LX45GT, CCL-LX45IT	LED's	Yes		2	D1 (green), D2 (red)	See photo for orientation.
15 DS1775	Dallas	DS1775R	temp sensor	Yes		1	U8	
16 SN74CBTLV3253	TI	SN74CBTLV3253DBQR	FET mux	Yes		1	U4	
17 48LC2M32B2-TSOP86	Micron	MT48LC2M32B2TG-6	SDRAM	Yes		1	U7	
18 CONN30X1	FCI/Berg	84502-101	BGA connector	Yes		1	U1	
19 TMS320C6203BGNZ	TI	TMS320C6203BGNZ	BGA DSP	Yes		1	U11	
20 XC2S150-6FG256C	Xilinx	XC2S150-6FG256C	BGA FPGA	Yes		2	U2,U5	
DS2401			serial number	Yes		1	U6	do not install
MONOPIN			(via)			2	MP1,MP2	do not install

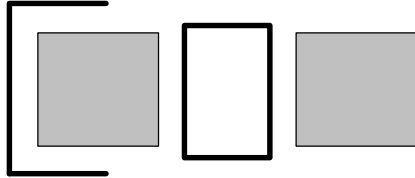
CDC (no reference designators)



Other 805 Components



*TDC (no reference designators)*



**Notes:**

Photos of an assembled GPU are at: <http://positron.ps.uci.edu/~schernau/ROD/pix/assembly.html>

The photos show 10 uF capacitors for TDC's. The value has been increased to 33 uF as listed in the table above.

**Warning:**

The gold tab on the TMS320C6203 does not indicate pin 1.