

Top 300 Global Electronics Companies

(Ranked By 2001 Electronics Revenue)

Rank	Company Name	Calendar year 2001			Fiscal year 2001			
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
1	IBM	85,866.0	85,866.0	7,723.0	9.0%	85,866.0	7,723.0	8.7%
2	Matsushita Electric Industrial	54,132.0	54,132.0	-2,077.0	-3.8%	61,452.5	332.0	0.5%
3	Siemens ¹	46,700.0	79,152.6	1,899.7	2.4%	79,152.6	1,899.7	2.3%
4	Fujitsu ¹	44,229.2	44,229.2	68.7	0.2%	44,229.2	68.7	0.2%
5	Hewlett-Packard*	44,013.0	44,013.0	759.0	1.7%	45,226.0	408.0	1.3%
6	NEC Corporation ¹	42,934.4	42,934.4	449.2	1.0%	42,934.4	449.2	1.2%
7	Sony Corporation ¹	39,792.2	58,518.0	134.0	0.2%	58,518.0	134.0	0.2%
8	Toshiba ¹	35,516.2	47,994.8	775.5	1.6%	47,994.8	775.5	1.7%
9	Compaq Computer	33,554.0	33,554.0	-785.0	-2.3%	33,554.0	-785.0	-3.3%
10	Dell Computer*	31,168.0	31,168.0	1,246.0	4.0%	31,888.0	2,177.0	16.2%
11	Hitachi ¹	30,545.5	67,878.9	841.8	1.2%	67,878.9	841.8	0.9%
12	Motorola	30,004.0	30,004.0	-3,937.0	-13.1%	30,004.0	-3,937.0	-11.8%
13	Nokia	27,801.0	27,801.0	1,961.0	7.1%	27,801.0	1,961.0	9.8%
14	Microsoft	26,778.0	26,778.0	6,082.0	22.7%	25,296.0	7,346.0	12.4%
15	Intel Corporation	26,539.0	26,539.0	1,291.0	4.9%	26,539.0	1,291.0	2.9%
16	Ingram Micro	25,186.9	25,186.9	6.7	0.0%	25,186.9	6.7	0.1%
17	Alcatel	25,122.0	25,122.0	-4,918.0	-19.6%	25,122.0	-4,963.0	-13.7%
18	Samsung Electronics	24,419.6	24,419.6	2,222.4	9.1%	24,419.6	2,222.4	10.6%
19	Ericsson	22,117.0	22,117.0	-2,029.0	-9.2%	22,117.0	-2,029.0	-8.5%
20	Canon	22,027.1	22,027.1	1,269.4	5.8%	22,027.1	1,269.4	5.9%
21	Electronic Data Systems	21,543.0	21,543.0	1,363.0	6.3%	21,543.0	1,363.0	8.3%
22	Lucent Technologies	20,519.0	20,519.0	-16,226.0	-79.1%	21,294.0	-16,198.0	-48.1%
23	Philips Electronics	20,465.0	28,824.0	-2,321.0	-8.1%	28,824.0	-2,321.0	-6.8%
24	Cisco Systems*	18,290.0	18,290.0	-2,294.0	-12.5%	22,293.0	-1,014.0	-2.9%
25	Mitsubishi Electric ¹	17,650.3	33,302.4	1,006.3	3.0%	33,302.4	1,006.3	3.0%
26	Nortel Networks	17,511.0	17,511.0	-27,302.0	-155.9%	17,511.0	-27,302.0	-129.2%
27	Tech Data*	17,197.0	17,197.6	110.8	0.6%	20,427.7	178.0	3.9%
28	Sharp ¹	16,364.7	16,364.7	313.2	1.9%	16,364.7	313.2	1.9%
29	Solectron*	16,149.0	16,149.0	-366.3	-2.3%	18,692.3	-123.5	-1.0%
30	Sun Microsystems	14,059.0	14,059.0	-617.0	-4.4%	18,250.0	927.0	5.1%

* Calendar year data is for the four quarters ending closest to Dec. 31, 2001.

** Electronics Revenues are based on segmentation information and Reed Research Group estimates. Electronics Revenue includes revenue from the sale, service, license, or rental of electronics/computer equipment, software or components.

N/A = Not Available.

¹ All figures are for fiscal year-end other than 12/31.

² Revenue and net income are for fiscal year 2000.

³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
32.7%	115.0%	63.0%	20.0%	6.2%	268.4	2.5%	12/31/01
1.1%	28.9%	71.4%	26.2%	7.1%	N/A	-0.8%	3/31/01
8.8%	53.0%	73.4%	19.1%	7.8%	175.9	5.1%	9/30/01
0.7%	134.7%	71.9%	16.3%	7.4%	236.0	4.7%	3/31/01
2.9%	39.1%	74.0%	16.1%	5.9%	524.7	3.3%	10/31/01
6.2%	184.1%	73.6%	16.6%	6.4%	286.2	0.9%	3/31/01
0.7%	91.8%	69.0%	22.3%	N/A	321.9	6.2%	3/31/01
9.2%	170.6%	72.6%	23.5%	N/A	255.2	-0.2%	3/31/01
-7.1%	20.6%	78.8%	15.9%	3.9%	429.1	13.1%	12/31/01
38.7%	9.1%	79.8%	10.0%	1.5%	797.2	43.2%	1/31/01
3.6%	122.1%	73.1%	22.8%	5.1%	199.1	-2.2%	3/31/01
-28.8%	67.5%	71.5%	12.3%	14.4%	270.3	1.4%	12/31/01
18.0%	6.8%	66.1%	11.0%	9.5%	516.3	26.9%	12/31/01
15.5%	0.0%	13.7%	22.7%	17.3%	531.4	23.9%	6/30/01
3.6%	4.1%	50.7%	16.8%	14.3%	318.2	4.9%	12/31/01
0.4%	24.5%	94.7%	4.7%	N/A	1,737.0	15.9%	12/31/01
-52.0%	86.6%	70.2%	13.3%	10.1%	253.8	-4.3%	12/31/01
15.1%	10.3%	75.7%	17.2%	N/A	N/A	0.7%	12/31/01
-31.0%	140.2%	71.7%	19.6%	20.0%	260.2	3.9%	12/31/01
11.5%	20.3%	56.0%	34.4%	N/A	235.3	0.0%	12/31/01
21.1%	73.3%	74.1%	8.7%	N/A	150.7	8.3%	12/31/01
-146.9%	40.0%	90.3%	34.8%	16.5%	276.5	6.1%	9/30/01
-14.1%	42.6%	71.3%	19.2%	10.2%	152.8	-6.2%	12/31/01
-3.7%	0.0%	50.3%	27.2%	17.6%	586.7	40.3%	7/31/01
18.4%	207.0%	74.2%	16.6%	4.5%	285.3	0.3%	3/31/01
-566.0%	101.7%	80.9%	33.8%	18.4%	326.7	6.4%	12/31/01
14.9%	131.4%	94.6%	3.6%	N/A	1,945.5	45.9%	1/31/01
4.1%	47.8%	74.6%	20.1%	N/A	333.3	1.2%	3/31/01
-2.4%	103.6%	92.0%	4.4%	0.4%	311.5	46.0%	8/31/01
8.8%	16.1%	55.0%	24.9%	11.0%	417.6	20.8%	6/30/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
31	Xerox ⁴	13,531.6	16,502.0	-293.0	-1.8%	16,502.0	-293.0	-1.0%
32	Tyco International	12,990.4	36,084.4	4,442.1	12.3%	34,036.6	3,970.6	3.6%
33	Flextronics International	12,922.9	12,922.9	-352.7	-2.7%	12,109.7	-446.0	-5.9%
34	LG Electronics	12,542.0	12,542.0	383.3	3.1%	12,542.0	383.3	4.4%
35	Ricoh Company ¹	12,208.4	12,208.4	422.4	3.5%	12,208.4	422.4	3.1%
36	Raytheon	11,638.2	16,867.0	-763.0	-4.5%	16,867.0	-763.0	-2.9%
37	Computer Sciences	11,276.9	11,276.9	165.6	1.5%	10,524.0	233.2	2.9%
38	Avnet	11,026.5	11,026.6	-154.2	-1.4%	12,814.0	15.4	0.3%
39	Seiko Epson Corporation ¹	10,615.0	10,615.0	727.0	6.8%	10,615.0	727.0	N/A
40	Oracle*	10,537.6	10,537.6	2,497.7	23.7%	10,859.7	2,561.1	23.2%
41	Honeywell International	10,406.9	23,652.0	-99.0	-0.4%	23,652.0	-99.0	-0.4%
42	Arrow Electronics	10,127.6	10,127.6	-73.8	-0.7%	10,127.6	-73.8	-1.4%
43	Celestica	10,004.4	10,004.4	-39.8	-0.4%	10,004.0	-39.8	-0.6%
44	Sanyo Electric Co. ¹	9,939.9	18,072.6	340.3	1.9%	18,072.6	340.3	1.4%
45	Kyocera ¹	9,586.9	10,198.8	1,742.3	17.1%	10,198.8	1,742.3	12.7%
46	Marconi ¹	9,430.0	9,430.0	-384.0	-4.1%	9,430.0	-384.0	-2.2%
47	Thomson multimedia	9,297.7	9,297.7	253.4	2.7%	9,297.7	253.4	2.9%
48	Thales	9,095.4	9,095.4	-324.4	-3.6%	9,095.4	-324.4	-1.9%
49	General Electric Co.	8,797.5	125,679.0	13,684.0	10.9%	125,679.0	13,684.0	2.8%
50	SCI Systems ^{1, 3}	8,713.9	8,713.9	99.9	1.1%	8,713.9	99.9	2.5%
51	Northrop Grumman	8,677.1	13,558.0	427.0	3.1%	13,558.0	427.0	2.0%
52	Texas Instruments	8,201.0	8,201.0	-201.0	-2.5%	8,201.0	-201.0	-1.3%
53	China Putian Information Industry Corp.	7,740.7	7,740.7	318.5	4.1%	7,740.7	318.5	N/A
54	Victor Company of Japan (JVC) ¹	7,535.1	7,535.1	20.1	0.3%	7,535.1	20.1	0.4%
55	Agilent Technologies, Inc.*	7,274.0	7,274.0	-301.0	-4.1%	8,396.0	174.0	2.2%
56	Haier Group	7,259.2	7,259.2	241.9	3.3%	7,259.2	241.9	N/A
57	EMC	7,090.6	7,090.6	-507.7	-7.2%	7,090.6	-507.7	-5.1%
58	TRW	6,553.2	16,383.0	68.0	0.4%	16,383.0	68.0	0.5%
59	SAP Aktiengesellschaft	6,534.1	6,534.1	517.3	7.9%	6,534.1	517.3	9.4%
60	Fuji Electric ¹	6,489.5	7,053.8	76.9	1.1%	7,053.8	76.9	1.0%

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³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

⁴ Xerox financials are those reported before June 2002.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
-5.4%	301.0%	63.8%	29.1%	6.1%	N/A	-1.0%	12/31/01
12.5%	180.0%	61.6%	21.2%	N/A	140.4	46.2%	9/30/01
-11.1%	30.8%	91.9%	3.6%	N/A	161.5	93.3%	3/31/01
11.9%	94.9%	77.8%	17.4%	N/A	196.0	-2.3%	12/31/01
9.6%	96.8%	60.1%	33.0%	N/A	164.5	3.3%	3/31/01
-6.8%	73.0%	85.4%	7.3%	2.8%	193.4	6.5%	12/31/01
7.3%	74.1%	80.1%	7.6%	N/A	154.8	19.9%	3/31/01
0.6%	93.6%	85.4%	12.6%	N/A	942.2	19.7%	6/30/01
N/A	N/A	N/A	N/A	N/A	152.2	N/A	3/31/01
40.8%	4.8%	25.7%	29.0%	10.5%	253.0	20.8%	5/31/01
-1.1%	57.5%	86.4%	13.0%	N/A	205.7	11.1%	12/31/01
-4.2%	140.3%	85.0%	11.4%	N/A	816.7	9.2%	12/31/01
-0.8%	3.1%	92.9%	3.4%	0.2%	250.1	37.8%	12/31/01
6.5%	182.0%	74.0%	16.4%	4.9%	215.2	29.6%	3/31/01
21.5%	19.1%	63.3%	14.8%	N/A	695.7	11.0%	3/31/01
-5.9%	79.5%	52.3%	34.6%	N/A	200.6	-10.9%	3/31/01
7.2%	28.6%	77.3%	13.1%	3.5%	144.5	5.3%	12/31/01
-17.3%	156.6%	76.3%	13.0%	N/A	145.5	5.6%	12/31/01
25.0%	424.8%	39.1%	6.9%	1.9%	405.4	9.9%	12/31/01
6.8%	97.7%	94.7%	1.9%	N/A	239.2	13.9%	6/30/01
5.8%	74.3%	82.7%	9.8%	N/A	140.1	10.9%	12/31/01
-1.7%	10.5%	71.0%	16.6%	19.5%	236.2	-3.8%	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.4%	98.4%	68.6%	30.8%	N/A	N/A	0.0%	3/31/01
3.1%	0.1%	61.5%	31.7%	16.1%	204.8	2.6%	10/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-6.7%	0.0%	59.9%	31.2%	13.1%	352.8	25.5%	12/31/01
3.1%	261.2%	86.0%	6.8%	2.7%	174.8	10.7%	12/31/01
18.7%	0.0%	38.9%	29.7%	12.2%	N/A	22.0%	12/31/01
5.0%	226.9%	79.6%	17.6%	N/A	260.3	-3.2%	3/31/01

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61	STMicroelectronics	6,356.9	6,356.9	257.1	4.0%	6,356.9	257.1	2.4%
62	Avaya	6,314.0	6,314.0	-388.0	-6.1%	6,793.0	-352.0	-7.6%
63	Corning	6,272.0	6,272.0	-5,498.0	-87.7%	6,272.0	-5,498.0	-43.0%
64	Gateway	6,079.5	6,079.5	-1,033.9	-17.0%	6,079.5	-1,033.9	-34.6%
65	Denso ¹	6,061.2	15,950.6	481.3	3.0%	15,950.6	481.3	2.6%
66	Unisys	6,018.1	6,018.1	-67.1	-1.1%	6,018.1	-67.1	-1.2%
67	NCR	5,917.0	5,917.0	217.0	3.7%	5,917.0	217.0	4.5%
68	Oki Electric Industry Co. ¹	5,859.8	5,859.8	70.8	1.2%	5,859.8	70.8	1.2%
69	Cap Gemini Ernst & Young	5,814.8	7,454.9	134.6	1.8%	7,454.9	134.6	2.2%
70	Lockheed Martin	5,757.6	23,990.0	-1,046.0	-4.4%	23,990.0	-1,046.0	-3.8%
71	Tokyo Electron ¹	5,733.9	5,733.9	491.2	8.6%	5,733.9	491.2	8.5%
72	Apple Computer, Inc.	5,731.0	5,731.0	208.0	3.6%	5,363.0	-25.0	-0.4%
73	Applied Materials*	5,612.6	5,612.6	171.6	3.1%	7,343.2	507.8	5.2%
74	Nippon Telegraph and Telephone (NTT) ¹	5,525.9	92,098.0	4,340.0	4.7%	92,098.0	4,340.0	2.5%
75	Infineon Technologies	5,177.1	5,177.1	-1,117.2	-21.6%	5,619.1	-585.2	-6.1%
76	Pioneer Corporation ¹	5,052.7	5,052.7	147.6	2.9%	5,052.7	147.6	3.0%
77	Ford Motor Company	4,872.4	162,412.0	-5,453.0	-3.4%	162,412.0	-5,453.0	-2.0%
78	Omron ¹	4,792.0	4,792.0	180.0	3.8%	4,792.0	180.0	3.8%
79	Murata ¹	4,709.8	4,709.8	846.2	18.0%	4,709.8	846.2	12.0%
80	Boeing Company, The	4,655.8	58,198.0	2,827.0	4.9%	58,198.0	2,827.0	5.8%
81	Alps Electric ¹	4,536.4	4,536.4	143.4	3.2%	4,536.4	143.4	3.8%
82	Mitac	4,532.4	4,532.4	N/A	N/A	4,532.4	N/A	N/A
83	TDK Corporation ¹	4,451.0	5,563.8	354.7	6.4%	5,563.8	354.7	5.4%
84	Delphi Corporation	4,435.0	26,088.0	-370.0	-1.4%	26,088.0	-370.0	-2.0%
85	Hon Hai Precision	4,386.0	4,386.0	N/A	N/A	4,386.0	N/A	N/A
86	Samsung SDI	4,293.5	4,293.5	423.6	9.9%	4,293.5	423.6	9.9%
87	Lexmark International	4,142.8	4,142.8	273.6	6.6%	4,142.8	273.6	11.2%
88	Rockwell International	4,110.0	4,110.0	165.0	4.0%	4,279.0	305.0	7.5%
89	Jabil Circuit*	4,086.4	4,086.4	79.1	1.9%	4,330.7	118.5	5.0%
90	EADS - European Aeronautic Defence & Space	4,010.3	27,280.9	1,215.3	4.5%	27,280.9	1,215.3	2.8%

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Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
4.2%	47.2%	63.7%	10.1%	15.4%	157.7	9.0%	12/31/01
-73.2%	134.1%	57.4%	30.3%	7.9%	295.3	N/A	9/30/01
-101.6%	91.2%	69.8%	17.5%	10.1%	197.9	11.4%	12/31/01
-66.1%	0.0%	86.2%	33.3%	N/A	434.3	3.8%	12/31/01
4.0%	28.5%	84.1%	9.7%	N/A	186.8	3.8%	3/31/01
-3.2%	39.1%	75.4%	19.2%	5.5%	154.7	-1.1%	12/31/01
10.7%	7.3%	69.7%	22.2%	5.0%	194.4	-3.2%	12/31/01
6.0%	239.6%	76.1%	20.1%	N/A	228.7	-3.4%	3/31/01
3.5%	6.7%	67.3%	27.7%	N/A	129.1	21.4%	12/31/01
-16.2%	116.6%	93.6%	N/A	N/A	191.9	-2.2%	12/31/01
18.6%	62.3%	63.4%	19.9%	N/A	560.2	8.9%	3/31/01
-0.6%	8.1%	77.0%	21.2%	8.0%	558.5	-11.4%	9/30/01
6.7%	7.5%	55.7%	12.3%	16.3%	422.9	12.1%	10/31/01
7.9%	96.8%	8.8%	21.8%	N/A	414.9	4.3%	3/31/01
-8.6%	5.3%	66.7%	34.8%	N/A	166.2	15.4%	9/30/01
5.4%	24.9%	71.4%	26.5%	N/A	175.0	1.1%	3/31/01
-70.0%	2149.2%	77.4%	8.4%	N/A	458.2	2.0%	12/31/01
6.8%	12.6%	63.3%	22.1%	7.2%	191.4	-0.4%	3/31/01
15.1%	0.6%	53.9%	11.0%	5.2%	N/A	N/A	3/31/01
26.1%	113.3%	83.8%	4.1%	3.3%	309.6	20.7%	12/31/01
13.7%	113.9%	83.2%	12.5%	N/A	132.2	N/A	3/31/01
N/A	N/A	N/A	N/A	N/A	2,282.2	N/A	12/31/01
6.9%	1.1%	71.9%	20.6%	N/A	149.4	1.7%	3/31/01
-16.0%	145.0%	89.0%	5.6%	N/A	133.8	-3.4%	12/31/01
N/A	N/A	N/A	N/A	N/A	3,676.4	N/A	12/31/01
N/A	N/A	N/A	N/A	N/A	554.6	N/A	12/31/01
25.4%	14.9%	69.2%	15.3%	5.9%	326.2	11.7%	12/31/01
19.1%	58.3%	70.8%	24.3%	N/A	185.2	-16.2%	9/30/01
8.4%	26.2%	90.9%	4.3%	0.1%	253.3	38.1%	8/3/01
13.9%	N/A	81.9%	8.3%	6.6%	263.8	N/A	12/31/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
91	Lagardère	4,005.0	11,779.4	545.8	4.6%	11,779.4	545.8	3.4%
92	Matsushita Electric Works ¹	3,965.6	9,672.3	151.3	1.6%	9,672.3	151.3	1.7%
93	Advanced Micro Devices	3,891.8	3,891.8	-60.6	-1.6%	3,891.8	-60.6	-1.1%
94	Eastman Kodak	3,837.9	13,234.0	76.0	0.6%	13,234.0	76.0	0.6%
95	Maxtor Corporation	3,797.0	3,797.0	-646.4	-17.0%	3,797.0	-646.4	-23.8%
96	Johnson Controls	3,758.1	18,790.5	495.7	2.6%	18,427.2	478.3	4.8%
97	Quanta Computer	3,736.2	3,736.2	284.2	7.6%	3,736.2	284.2	N/A
98	Nintendo ¹	3,727.4	3,727.4	779.1	20.9%	3,727.4	779.1	9.2%
99	Taiwan Semiconductor Manufacturing Company	3,723.9	3,723.9	414.2	11.1%	3,723.9	414.2	3.7%
100	Sanmina ³	3,698.9	3,698.9	-120.7	-3.3%	4,054.0	40.4	1.1%
101	Olympus Optical Co. ¹	3,694.4	3,694.4	93.3	2.5%	3,694.4	93.3	1.4%
102	Getronics	3,675.2	3,675.2	-921.2	-25.1%	3,675.2	-921.2	-31.9%
103	Eaton	3,649.5	7,299.0	169.0	2.3%	7,299.0	169.0	2.2%
104	Shanghai Audio-Video Electronics	3,615.6	3,615.6	187.2	5.2%	3,615.6	187.2	N/A
105	Casio Computer ¹	3,580.1	3,580.1	52.8	1.5%	3,580.1	52.8	1.5%
106	Legend Group ¹	3,489.5	3,489.5	110.3	3.2%	3,489.5	110.3	8.6%
107	E. I. du Pont de Nemours and Co.	3,461.6	24,726.0	4,339.0	17.5%	24,726.0	4,339.0	10.8%
108	Emerson	3,416.6	14,854.9	929.1	6.3%	15,479.6	1,031.8	6.9%
109	DaimlerChrysler	3,401.8	136,072.0	-589.0	-0.4%	136,072.0	-589.0	-0.3%
110	Invensys ¹	3,340.9	11,136.4	110.5	1.0%	11,136.4	110.5	1.0%
111	Rohm ¹	3,301.1	3,301.1	694.9	21.1%	3,301.1	694.9	11.3%
112	Agfa-Gevaert	3,262.7	4,350.2	-255.1	-5.9%	4,350.2	-255.1	-6.4%
113	Agere Systems	3,255.0	3,255.0	-4,987.0	-153.2%	4,080.0	-4,616.0	-70.3%
114	Acer	3,232.1	3,232.1	29.5	0.9%	3,232.1	29.5	0.9%
115	Anixter International	3,144.2	3,144.2	30.3	1.0%	3,144.2	30.3	2.5%
116	Furukawa Electric ¹	3,142.2	6,546.2	1,325.1	20.2%	6,546.2	1,325.1	11.1%
117	Computacenter	3,037.6	3,037.6	27.7	0.9%	3,037.6	27.7	3.0%
118	Schlumberger	3,024.1	13,745.8	522.2	3.8%	13,745.8	522.2	2.3%
119	Hynix Semiconductor	3,003.9	3,003.9	-3,825.9	-127.4%	3,003.9	-3,825.9	-42.3%
120	Computer Associates Int'l	2,929.0	2,929.0	-1,274.0	-43.5%	4,198.0	-591.0	-4.2%

* Calendar year data is for the four quarters ending closest to Dec. 31, 2001.

** Electronics Revenues are based on segmentation information and Reed Research Group estimates. Electronics Revenue includes revenue from the sale, service, license, or rental of electronics/computer equipment, software or components.

N/A = Not Available.

¹ All figures are for fiscal year-end other than 12/31.

² Revenue and net income are for fiscal year 2000.

³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
N/A	N/A	N/A	N/A	N/A	267.7	1.8%	12/31/01
3.5%	35.7%	70.1%	25.7%	N/A	573.3	-1.6%	11/31/00
-1.7%	28.3%	66.5%	15.9%	16.7%	270.0	14.8%	12/31/01
2.6%	110.6%	65.5%	19.9%	5.9%	176.2	-3.7%	12/31/01
-71.8%	32.1%	90.3%	6.7%	11.5%	387.0	36.6%	12/30/01
16.0%	61.0%	85.9%	8.9%	3.5%	164.5	13.0%	9/30/01
N/A	N/A	N/A	N/A	N/A	1,556.8	N/A	12/31/01
11.6%	0.0%	60.2%	21.5%	N/A	N/A	2.5%	3/31/01
5.2%	16.0%	39.1%	7.8%	8.2%	272.3	21.0%	12/31/01
2.2%	67.1%	86.6%	5.9%	N/A	83.1	72.5%	9/30/01
6.1%	117.0%	58.2%	34.2%	N/A	186.0	9.1%	3/31/01
-194.4%	0.0%	82.6%	13.8%	N/A	128.8	N/A	12/31/01
6.8%	98.6%	75.4%	16.7%	3.1%	149.0	1.0%	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4.0%	96.8%	71.0%	22.3%	2.7%	197.6	-1.4%	3/31/01
17.9%	17.3%	87.8%	8.7%	N/A	N/A	48.8%	3/31/01
30.0%	47.1%	67.6%	11.8%	6.4%	313.0	-8.4%	12/31/01
16.9%	76.9%	65.4%	19.9%	3.8%	124.3	6.8%	9/30/01
-1.7%	233.3%	84.0%	12.0%	3.9%	365.3	N/A	12/31/01
7.2%	331.5%	N/A	N/A	N/A	122.9	N/A	3/31/01
14.6%	0.1%	52.6%	13.7%	N/A	N/A	N/A	3/31/01
-22.7%	84.1%	63.5%	26.1%	4.7%	206.8	N/A	12/31/01
-187.6%	103.6%	75.6%	14.6%	23.3%	283.3	N/A	9/30/01
1.7%	29.5%	86.7%	13.6%	2.5%	N/A	-5.1%	12/31/01
5.4%	42.8%	76.6%	18.9%	N/A	641.7	4.9%	12/31/01
23.7%	48.5%	79.4%	13.6%	N/A	783.5	0.0%	3/31/01
8.6%	0.9%	N/A	N/A	N/A	515.4	N/A	12/31/01
6.2%	86.3%	77.4%	8.2%	5.1%	169.7	8.9%	12/31/01
-96.8%	82.5%	109.1%	23.3%	N/A	N/A	-4.4%	12/31/01
-10.2%	77.1%	N/A	61.1%	16.6%	230.7	3.7%	3/31/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001			Net Income as a % of revenues	Fiscal year 2001		Return on assets (%)
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)		Total revenues (\$ millions)	Net income (\$ millions)	
121	Fuji Photo Film ¹	2,904.0	11,616.0	950.8	8.2%	11,616.0	950.8	4.2%
122	Minolta ¹	2,883.1	3,744.3	-25.2	-0.7%	3,744.3	-25.2	-0.7%
123	ABB Ltd.	2,847.1	23,726.0	-691.0	-2.9%	23,726.0	-691.0	-2.1%
124	Yokogawa Electric Corporation ¹	2,845.9	2,845.9	205.1	7.2%	2,845.9	205.1	6.2%
125	General Dynamics Corporation	2,797.5	12,163.0	943.0	7.8%	12,163.0	943.0	8.5%
126	Micron Technology*	2,788.2	2,788.2	-1,243.1	-44.6%	3,935.9	-625.0	-7.5%
127	Oce ¹	2,786.8	2,786.8	9.0	0.3%	2,786.8	9.0	0.3%
128	Qualcomm	2,694.4	2,694.4	-180.8	-6.7%	2,679.8	-548.7	-9.5%
129	Atos Origin	2,690.7	2,690.7	109.0	4.1%	2,690.7	109.0	5.6%
130	Sagem	2,690.6	2,690.6	-12.6	-0.5%	2,690.6	-12.6	-0.5%
131	CSK ¹	2,669.0	3,378.5	-172.3	-5.1%	3,378.5	-172.3	-5.6%
132	Ryosan ¹	2,645.2	2,645.2	59.2	2.2%	2,645.2	59.2	4.2%
133	Panda Electronics Group	2,554.8	2,554.8	117.2	4.6%	2,554.8	117.2	N/A
134	Pioneer-Standard Electronics	2,550.8	2,550.8	-0.7	0.0%	2,901.4	34.6	2.9%
135	TCL Group	2,543.6	2,543.6	86.1	3.4%	2,543.6	86.1	N/A
136	BAE Systems	2,492.5	13,118.5	-194.4	-1.5%	13,118.5	-194.4	-0.8%
137	Affiliated Computer Services	2,489.5	2,489.5	171.3	6.9%	2,063.6	134.3	7.1%
138	Dimension Data Holdings Limited ¹	2,460.3	2,460.3	-1,726.9	-70.2%	2,460.3	-1,726.9	-36.6%
139	Asustek Computer Inc.	2,441.0	2,441.0	461.4	18.9%	2,441.0	461.4	20.4%
140	Kenwood Corporation ¹	2,401.4	2,401.4	172.9	7.2%	2,401.4	172.9	10.5%
141	Aiwa Co., Ltd ¹	2,364.0	2,364.0	-314.9	-13.3%	2,364.0	-314.9	-19.9%
142	L-3 Communications	2,347.4	2,347.4	115.5	4.9%	2,347.4	115.5	3.5%
143	Samsung Electro-Mechanics Co.	2,346.5	2,346.5	83.6	3.6%	2,346.5	83.6	3.4%
144	Inventec Co., Ltd.	2,325.9	2,325.9	N/A	N/A	2,325.9	N/A	N/A
145	Daewoo Electronics	2,290.0	2,290.0	-570.2	-24.9%	2,290.0	-570.2	-29.2%
146	Bull	2,253.3	2,253.3	-224.1	-9.9%	2,253.3	-224.1	N/A
147	Japan Radio Co., Ltd. ¹	2,232.7	2,232.7	-5.0	-0.2%	2,232.7	-5.0	-0.2%
148	Compal Electronics, Inc.	2,200.1	2,200.1	154.0	7.0%	2,200.1	154.0	8.7%
149	Tellabs	2,199.7	2,199.7	-182.0	-8.3%	2,199.7	-182.0	-6.4%
150	First International Computer	2,172.2	2,172.2	-45.7	-2.1%	2,172.2	-45.7	-3.1%

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N/A = Not Available.

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Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
7.3%	20.5%	55.8%	28.3%	5.5%	164.2	2.8%	3/31/01
-4.4%	332.0%	56.8%	34.8%	5.7%	778.8	1.9%	3/31/01
-34.3%	486.1%	76.5%	18.5%	N/A	N/A	-6.8%	12/31/01
12.7%	40.9%	66.9%	28.5%	N/A	486.3	3.3%	3/31/01
20.8%	42.7%	78.8%	6.8%	N/A	235.3	27.7%	12/31/01
-8.8%	7.4%	97.2%	13.3%	12.4%	217.5	1.5%	8/30/01
1.1%	126.7%	55.4%	28.5%	6.4%	N/A	3.4%	11/30/01
-11.2%	0.0%	38.6%	13.7%	15.5%	412.3	26.9%	9/30/01
25.7%	86.0%	N/A	N/A	N/A	102.4	45.8%	12/31/01
-1.2%	0.0%	74.6%	N/A	N/A	184.7	-1.9%	12/31/01
-25.1%	178.4%	80.3%	14.8%	N/A	696.7	36.4%	3/31/01
6.9%	9.5%	91.0%	5.1%	0.3%	N/A	N/A	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9.8%	110.4%	85.1%	11.0%	N/A	1,124.1	21.3%	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-2.0%	50.7%	34.6%	31.1%	N/A	187.1	3.6%	12/31/01
15.2%	73.7%	29.9%	54.7%	N/A	98.3	39.1%	6/30/01
-53.4%	N/A	N/A	N/A	N/A	194.9	N/A	9/30/01
24.7%	0.1%	78.2%	N/A	N/A	N/A	N/A	12/31/01
1094.3%	6134.2%	77.8%	22.2%	N/A	1,100.0	-0.3%	3/31/01
-276.9%	830.5%	90.5%	16.4%	4.7%	234.0	-3.1%	3/31/01
9.5%	108.4%	88.3%	N/A	N/A	130.4	34.0%	12/31/01
6.4%	55.8%	93.8%	5.4%	N/A	N/A	N/A	12/31/01
N/A	N/A	N/A	N/A	N/A	593.0	N/A	12/31/01
N/A	-129.6%	86.8%	11.1%	N/A	448.1	-15.2%	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	-13.3%	12/31/01
-0.7%	48.4%	78.4%	18.6%	8.1%	N/A	N/A	3/31/01
13.7%	N/A	N/A	N/A	N/A	N/A	N/A	12/31/01
-7.4%	137.5%	65.3%	18.2%	19.3%	299.9	20.4%	12/31/01
N/A	N/A	N/A	N/A	N/A	668.4	N/A	12/31/01

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TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
151	KPMG Consulting	2,140.7	2,675.9	0.9	0.0%	2,855.8	35.0	3.5%
152	JDS Uniphase	2,135.9	2,135.9	-57,564.7	-2695.1%	3,232.8	-56,121.9	-458.3%
153	Scientific-Atlanta	2,111.6	2,111.6	225.9	10.7%	2,512.0	333.7	16.7%
154	BenQ	2,101.9	2,101.9	86.4	4.1%	2,101.9	86.4	4.4%
155	Advantest ¹	2,077.0	2,077.0	372.9	18.0%	2,077.0	372.9	11.7%
156	PeopleSoft	2,073.3	2,073.3	191.6	9.2%	2,073.3	191.6	7.5%
157	Siebel Systems	2,048.4	2,048.4	254.6	12.4%	2,048.4	254.6	9.3%
158	Storage Technology Corporation	2,045.3	2,045.3	67.2	3.3%	2,045.3	67.2	3.8%
159	Mitsumi Electric ¹	2,044.9	2,044.9	55.6	2.7%	2,044.9	55.6	3.1%
160	Tatung	2,036.2	2,036.2	246.5	12.1%	2,036.2	246.5	N/A
161	Yamaha ¹	2,011.1	4,189.7	107.5	2.6%	4,189.7	107.5	2.5%
162	Bell Microproducts	2,007.1	2,007.1	-22.1	-1.1%	2,007.1	-22.1	-3.4%
163	Western Digital	1,998.1	1,998.1	-34.0	-1.7%	1,953.4	-98.9	-19.5%
164	United Microelectronics Corporation	1,994.8	1,994.8	-90.2	-4.5%	1,994.8	-90.2	-1.0%
165	TriGem Computer	1,990.7	1,990.7	4.8	0.2%	1,990.7	4.8	0.5%
166	ITT Industries	1,963.8	4,675.7	276.7	5.9%	4,675.7	276.7	6.1%
167	SEGA Corporation ¹	1,960.6	1,960.6	-417.5	-21.3%	1,960.6	-417.5	-18.2%
168	Molex	1,957.3	1,957.3	101.0	5.2%	2,365.5	203.9	9.2%
169	Huawei Technologies Co.	1,955.3	1,955.3	319.8	16.4%	1,955.3	319.8	N/A
170	Hisense Group Co.	1,946.7	1,946.7	36.1	1.9%	1,946.7	36.1	N/A
171	Finmeccanica	1,934.8	5,863.1	187.8	3.2%	5,863.1	187.8	N/A
172	Konica ¹	1,930.9	4,388.4	52.1	1.2%	4,388.4	52.1	1.2%
173	SunGard Data Systems	1,928.7	1,928.7	246.1	12.8%	1,928.7	246.1	8.5%
174	KLA-Tencor	1,903.0	1,903.0	-13.0	-0.7%	2,103.8	66.7	2.4%
175	Harris Corporation	1,902.7	1,902.7	73.7	3.9%	1,955.1	21.4	1.1%
176	Analog Devices *	1,897.6	1,897.6	190.7	10.0%	2,276.9	356.4	7.3%
177	Continental AG	1,890.6	9,950.5	-228.2	-2.3%	9,950.5	-228.2	-2.9%
178	Shin-Etsu Chemical Co. ¹	1,888.5	6,512.0	520.2	8.0%	6,512.0	520.2	5.1%
179	ADC Telecommunications*	1,885.0	1,885.0	-1,325.0	-70.3%	2,402.8	-1,287.7	-51.5%
180	3Com*	1,881.1	1,881.1	-1,099.8	-58.5%	2,820.9	-965.4	-28.0%

* Calendar year data is for the four quarters ending closest to Dec. 31, 2001.

** Electronics Revenues are based on segmentation information and Reed Research Group estimates. Electronics Revenue includes revenue from the sale, service, license, or rental of electronics/computer equipment, software or components.

N/A = Not Available.

¹ All figures are for fiscal year-end other than 12/31.

² Revenue and net income are for fiscal year 2000.

³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
5.5%	2.1%	76.4%	15.8%	N/A	285.6	32.3%	6/30/01
-524.2%	0.1%	71.4%	25.3%	10.1%	162.1	115.8%	6/30/01
22.1%	0.0%	68.4%	8.8%	6.1%	298.3	19.1%	6/30/01
N/A	N/A	N/A	N/A	N/A	1,208.7	N/A	12/31/01
17.5%	0.0%	48.6%	23.7%	N/A	N/A	N/A	3/31/01
12.0%	3.6%	36.2%	32.3%	14.4%	245.8	35.7%	12/31/01
13.9%	16.3%	28.4%	44.5%	9.7%	276.7	120.6%	12/31/01
6.5%	8.1%	56.0%	27.4%	12.0%	262.2	0.1%	12/28/01
N/A	N/A	N/A	N/A	N/A	44.5	N/A	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	-7.7%	12/31/01
6.8%	47.3%	66.7%	28.9%	N/A	188.1	-3.3%	3/31/01
-17.6%	184.8%	92.4%	7.9%	0.4%	1,359.8	32.9%	12/31/01
-1454.4%	1654.3%	89.4%	6.1%	6.3%	247.0	-7.4%	6/30/01
-1.5%	19.9%	86.8%	9.6%	11.3%	N/A	19.4%	12/31/01
1.3%	44.4%	91.5%	7.2%	N/A	1,105.9	10.0%	12/31/01
20.1%	70.8%	65.1%	14.4%	9.1%	123.0	-11.7%	12/31/01
-56.4%	131.0%	89.8%	31.6%	N/A	717.4	-11.4%	3/31/01
11.5%	1.6%	63.7%	24.5%	N/A	140.4	11.4%	6/30/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	64.9%	27.8%	N/A	148.9	-7.4%	12/31/01
4.0%	113.5%	58.7%	35.7%	4.9%	249.4	-1.4%	3/31/01
13.7%	25.6%	40.0%	20.9%	8.9%	221.7	23.5%	12/31/01
3.8%	0.0%	44.5%	16.8%	16.9%	328.7	24.8%	6/30/01
1.9%	37.6%	73.2%	21.2%	3.8%	193.6	-11.6%	6/29/01
12.5%	42.6%	44.3%	12.6%	20.4%	253.0	13.8%	11/3/01
-16.7%	0.0%	81.5%	20.7%	N/A	153.1	8.2%	12/31/01
8.9%	26.4%	74.7%	8.1%	3.2%	335.7	4.0%	3/31/01
-68.0%	0.2%	69.8%	29.4%	11.6%	200.2	23.7%	10/31/01
-38.5%	0.1%	81.1%	35.0%	19.0%	345.5	3.9%	6/1/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
181	Ascom Group	1,878.9	1,878.9	-236.4	-12.6%	1,878.9	-236.4	-15.9%
182	Synnex Technology	1,849.1	1,849.1	N/A	N/A	1,849.1	N/A	N/A
183	Compuware	1,835.8	1,835.8	137.3	7.5%	2,010.1	119.1	5.2%
184	Shanghai Bell	1,819.4	1,819.4	239.1	13.1%	1,819.4	239.1	N/A
185	CompuCom Systems	1,815.5	1,815.5	6.7	0.4%	1,815.5	6.7	1.5%
186	LSI Logic	1,784.9	1,784.9	-992.0	-55.6%	1,784.9	-992.0	-21.4%
187	Smiths Group ¹	1,779.8	4,943.8	167.7	3.4%	4,943.8	167.7	3.6%
188	Jenoptik Aktiengesellschaft	1,772.9	1,772.9	78.2	4.4%	1,772.9	78.2	7.5%
189	Hosiden ¹	1,762.6	1,762.6	115.1	6.5%	1,762.6	115.1	10.0%
190	Diebold	1,760.3	1,760.3	66.9	3.8%	1,760.3	66.9	4.0%
191	Harman International Industries	1,749.8	1,749.8	17.7	1.0%	1,716.5	32.4	2.8%
192	The Alpine Group	1,747.3	1,747.3	-31.0	-1.8%	1,747.3	-31.0	-1.6%
193	Ryoyo Electro Corp. ¹	1,743.9	1,743.9	43.5	2.5%	1,743.9	43.5	5.2%
194	Schneider Electric	1,741.2	8,705.8	-873.8	-10.0%	8,705.8	-873.8	-6.5%
195	Areva	1,735.2	7,887.2	-520.1	-6.6%	7,887.2	-520.1	-2.9%
196	Hitachi Kokusai Electric Company ¹	1,712.1	1,712.1	-76.3	-4.5%	1,712.1	-76.3	-3.8%
197	Silicon Graphics	1,684.5	1,684.5	-405.0	-24.0%	1,854.5	-493.0	-38.4%
198	Nikon Corporation ¹	1,679.6	3,906.0	168.8	4.3%	3,906.0	168.8	3.5%
199	DST Systems, Inc.	1,660.0	1,660.0	228.2	13.7%	1,660.0	228.2	8.4%
200	Vishay Intertechnology	1,655.3	1,655.3	0.5	0.0%	1,655.3	0.5	0.0%
201	Sanshin Electronics ¹	1,654.7	1,654.7	27.2	1.6%	1,654.7	27.2	3.9%
202	Elcoteq	1,650.2	1,650.2	-28.3	-1.7%	1,650.2	-28.3	N/A
203	Thermo Electron Corporation	1,641.2	2,188.2	0.8	0.0%	2,188.2	-0.8	0.0%
204	Ibiden ¹	1,627.1	1,627.1	40.4	2.5%	1,627.1	40.4	2.2%
205	ASML	1,625.4	1,625.4	-422.1	-26.0%	1,625.4	-422.1	-13.1%
206	Amdocs Limited	1,614.3	1,614.3	58.1	3.6%	1,533.9	66.4	2.5%
207	Shimadzu Corp. ¹	1,613.0	1,613.0	-85.3	-5.3%	1,613.0	-83.3	-3.8%
208	Logica plc ¹	1,602.8	1,602.8	125.9	7.9%	1,602.8	125.9	6.9%
209	National Semiconductor [*]	1,582.6	1,582.6	-106.4	-6.7%	2,112.6	245.7	10.4%
210	Lite-On Technology	1,581.0	1,581.0	N/A	N/A	1,581.0	N/A	N/A

* Calendar year data is for the four quarters ending closest to Dec. 31, 2001.

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N/A = Not Available.

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² Revenue and net income are for fiscal year 2000.

³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
-76.9%	0.0%	78.1%	19.4%	6.5%	208.8	N/A	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/31/01
8.6%	10.2%	51.2%	29.0%	N/A	152.0	26.8%	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.8%	0.0%	86.6%	11.4%	N/A	477.8	-1.9%	12/31/01
-40.0%	58.7%	76.8%	17.2%	28.2%	264.9	7.6%	12/31/01
13.4%	85.6%	58.9%	N/A	3.2%	131.1	N/A	7/31/01
18.1%	N/A	87.7%	7.6%	1.4%	255.4	10.2%	12/31/01
22.6%	39.3%	85.4%	5.8%	N/A	1,553.0	N/A	3/31/01
7.4%	27.7%	70.2%	16.1%	3.4%	138.9	11.3%	12/31/01
7.7%	87.2%	73.9%	22.0%	5.2%	160.8	4.7%	6/30/01
-67.3%	3025.1%	84.2%	9.1%	N/A	329.7	27.2%	12/31/01
7.6%	N/A	91.6%	3.6%	N/A	3,432.9	N/A	1/31/01
-11.7%	31.8%	59.8%	23.6%	5.2%	135.7	-5.9%	12/31/01
-43.6%	N/A	78.1%	11.7%	4.2%	158.2	N/A	12/31/01
-10.4%	46.5%	80.4%	9.0%	6.2%	262.2	N/A	3/31/01
N/A	-1344.8%	65.5%	38.6%	12.7%	311.4	-8.7%	6/30/01
11.2%	96.8%	62.4%	20.2%	4.7%	281.1	4.7%	3/31/01
15.5%	20.8%	72.7%	N/A	11.0%	148.2	23.4%	12/31/01
0.0%	26.1%	77.0%	16.8%	1.0%	73.9	8.6%	12/31/01
6.1%	29.4%	91.6%	5.3%	N/A	2,017.9	N/A	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/31/01
0.0%	65.8%	56.2%	28.3%	7.8%	182.4	-5.7%	12/31/01
N/A	N/A	N/A	N/A	N/A	323.4	N/A	3/31/01
-39.1%	125.2%	97.2%	15.2%	23.0%	N/A	16.1%	12/31/01
4.4%	35.4%	51.5%	19.6%	N/A	178.4	N/A	9/31/01
-11.9%	85.4%	67.9%	26.1%	4.0%	N/A	N/A	3/31/01
9.0%	0.2%	N/A	N/A	N/A	134.6	N/A	6/30/01
13.9%	3.1%	50.9%	15.5%	20.6%	205.1	-4.2%	5/31/01
N/A	N/A	N/A	N/A	N/A	3,544.8	N/A	12/31/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
211	AVX Corporation	1,575.8	1,575.8	119.6	7.6%	2,608.1	567.5	30.1%
212	Pitney Bowes	1,566.6	4,122.5	488.3	11.8%	4,122.5	488.3	5.9%
213	Electronic Arts	1,562.4	1,562.4	36.3	2.3%	1,322.3	-11.1	-0.8%
214	Cookson Group	1,553.6	3,046.2	-156.1	-5.1%	3,046.2	-156.1	-5.6%
215	Fiat	1,530.3	51,011.5	-394.3	-0.8%	51,011.5	-394.3	-0.4%
216	Dainippon Screen ¹	1,526.9	1,957.5	143.6	7.3%	1,957.5	143.6	5.9%
217	Citizen Watch ¹	1,525.6	3,051.1	102.5	3.4%	3,051.1	102.5	3.0%
218	Clarion Co. ¹	1,522.9	1,522.9	-62.7	-4.1%	1,522.9	-62.7	-4.3%
219	Manufacturers' Services Limited	1,522.0	1,522.0	-95.1	-6.2%	1,522.0	-95.1	-21.8%
220	Amkor Technology	1,517.9	1,517.9	-450.9	-29.7%	1,517.9	-450.9	-14.0%
221	Danaher	1,513.0	3,782.4	297.7	7.9%	3,782.4	297.7	6.2%
222	Taiyo Yuden ¹	1,504.7	1,504.7	162.3	10.8%	1,504.7	162.3	8.4%
223	VERITAS Software	1,492.3	1,492.3	-651.4	-43.7%	1,492.3	-651.4	-17.1%
224	Hughes Electronics Corporation	1,487.2	8,262.0	-621.6	-7.5%	8,262.0	-621.6	-3.2%
225	EPCOS	1,479.7	1,479.7	52.1	3.5%	1,888.0	147.3	10.5%
226	Atmel Corporation	1,472.3	1,472.3	-418.3	-28.4%	1,472.3	-418.3	-13.8%
227	Symbol Technologies	1,452.7	1,452.7	-53.9	-3.7%	1,452.7	-53.9	-2.8%
228	Teradyne	1,440.6	1,440.6	-202.2	-14.0%	1,440.6	-202.2	-8.0%
229	American Power Conversion Corporation	1,433.3	1,433.3	113.4	7.9%	1,433.3	113.4	8.0%
230	Cadence Design Systems	1,430.4	1,430.4	141.3	9.9%	1,430.4	141.3	8.2%
231	TEAC ¹	1,425.3	1,425.3	6.0	0.4%	1,425.3	6.0	0.6%
232	CIENA *	1,413.5	1,413.5	-1,917.9	-135.7%	1,603.2	-1,794.1	-54.1%
233	Yamatake Corp. ¹	1,409.5	1,409.5	-46.9	-3.3%	1,409.5	-46.9	-3.2%
234	Fairchild Semiconductor	1,407.7	1,407.7	-41.7	-3.0%	1,407.7	-41.7	-1.9%
235	Beijing University Founder Group	1,405.2	1,405.2	29.5	2.1%	1,405.2	29.5	N/A
236	Marubun ¹	1,378.9	1,378.9	26.7	1.9%	1,378.9	26.7	N/A
237	BMC Software	1,376.0	1,376.0	-159.3	-11.6%	1,504.0	42.4	1.4%
238	Intuit *	1,372.4	1,372.4	-48.1	-3.5%	1,261.5	-82.8	-2.8%
239	NVIDIA *	1,371.3	1,371.3	177.2	12.9%	735.3	99.9	9.8%
240	Brother ¹	1,360.2	2,720.4	-23.0	-0.8%	2,720.4	-23.0	-0.8%
241	Novellus Systems	1,339.3	1,339.3	144.5	10.8%	1,339.3	144.5	4.8%

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Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
37.7%	1.7%	62.7%	5.7%	N/A	144.9	16.6%	3/31/01
54.8%	391.7%	38.2%	33.2%	3.2%	126.0	1.3%	12/31/01
-1.1%	0.0%	49.3%	21.9%	29.4%	377.8	20.0%	3/31/01
-19.2%	151.2%	N/A	N/A	N/A	179.2	1.9%	12/31/01
-3.3%	198.6%	71.4%	N/A	N/A	238.2	0.0%	12/31/01
25.8%	152.9%	70.4%	19.7%	4.0%	415.2	N/A	3/31/01
5.8%	15.5%	72.8%	20.4%	N/A	156.4	-3.2%	3/31/01
-104.6%	1316.9%	82.5%	18.6%	N/A	701.5	N/A	3/31/01
-83.6%	106.0%	92.8%	12.9%	N/A	301.3	26.3%	12/31/01
-44.7%	181.6%	95.4%	13.2%	2.6%	70.3	5.3%	12/31/01
13.4%	53.5%	61.8%	23.1%	N/A	164.5	15.9%	12/31/01
13.8%	N/A	N/A	N/A	N/A	87.1	N/A	3/31/01
-7.4%	5.1%	16.2%	45.6%	16.2%	266.2	110.5%	12/31/01
-5.6%	23.9%	50.3%	45.0%	1.0%	603.1	-12.1%	12/31/01
21.4%	25.4%	65.4%	7.4%	4.4%	145.2	16.0%	9/30/01
-28.1%	63.8%	71.8%	12.4%	18.2%	179.8	6.6%	12/31/01
-4.6%	26.8%	72.9%	22.2%	4.2%	276.7	17.2%	12/31/01
-11.5%	26.0%	82.0%	18.7%	20.0%	171.5	4.2%	12/31/01
9.3%	0.0%	64.2%	21.8%	3.8%	230.7	15.2%	12/31/01
12.6%	0.3%	24.8%	35.5%	20.8%	255.4	14.0%	12/31/01
3.0%	168.0%	80.4%	16.5%	N/A	1,412.6	8.4%	3/31/01
-84.3%	40.9%	56.4%	12.8%	14.7%	424.4	96.4%	10/31/01
-5.9%	9.6%	62.3%	31.1%	N/A	207.9	-3.0%	3/31/01
-5.2%	140.9%	74.8%	11.0%	5.9%	143.7	12.7%	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	1,618.4	N/A	3/31/01
2.3%	8.3%	20.2%	50.9%	15.6%	205.2	28.5%	3/31/01
-3.8%	2.4%	24.7%	29.6%	16.4%	206.8	18.6%	7/31/01
24.6%	74.2%	60.4%	19.7%	N/A	923.7	185.2%	1/31/01
-3.1%	172.8%	65.3%	30.4%	N/A	159.7	N/A	3/31/01
7.7%	47.5%	48.4%	14.8%	20.3%	404.5	23.7%	12/31/01

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Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
242	CMG	1,335.5	1,335.5	-864.9	-64.8%	1,335.5	-864.9	-71.2%
243	VTech Holdings ¹	1,334.9	1,334.9	-215.0	-16.1%	1,334.9	-215.0	-98.2%
244	PerkinElmer	1,330.1	1,330.1	34.5	2.6%	1,330.1	34.5	1.2%
245	ZTE Corporation	1,316.4	1,316.4	96.1	7.3%	1,316.4	96.1	N/A
246	Premier Farnell ¹	1,314.3	1,314.3	107.0	8.1%	1,314.3	107.0	14.0%
247	Funai Electric ¹	1,305.3	1,305.3	97.6	7.5%	1,305.3	97.6	7.4%
248	Kaga Electronics ¹	1,284.5	1,284.5	32.4	2.5%	1,284.5	32.4	6.2%
249	Anritsu ¹	1,283.7	1,283.7	77.8	6.1%	1,283.7	77.8	4.6%
250	Sanken Electric ¹	1,281.0	1,281.0	10.4	0.8%	1,281.0	10.4	0.7%
251	Sichuan Changhong Electronics Group	1,279.2	1,279.2	12.7	1.0%	1,279.2	12.7	N/A
252	Benchmark Electronics	1,277.0	1,277.0	-54.3	-4.3%	1,277.0	-54.3	-7.9%
253	Comverse Technology*	1,270.2	1,270.2	54.7	4.3%	1,225.1	249.1	9.5%
254	Daewoo Telecom ²	1,248.8	1,248.8	-433.2	-34.7%	1,248.8	-433.2	-43.2%
255	Dover Corporation	1,248.7	4,459.7	248.5	5.6%	4,459.7	248.5	5.4%
256	Adobe Systems *	1,229.7	1,229.7	205.7	16.7%	1,229.7	205.7	22.1%
257	Minebea ¹	1,227.9	2,316.7	119.7	5.2%	2,316.7	119.7	4.3%
258	Misys ¹	1,224.7	1,224.7	107.3	8.8%	1,224.7	107.3	21.8%
259	ON Semiconductor	1,214.6	1,214.6	-831.4	-68.5%	1,214.6	-831.4	-61.1%
260	Electrocomponents ¹	1,211.1	1,211.1	102.8	8.5%	1,211.1	102.8	10.3%
261	Viasystems Group	1,206.5	1,206.5	-587.0	-48.7%	1,206.5	-587.0	-59.4%
262	Delta Electronics	1,204.8	1,204.8	102.2	8.5%	1,204.8	102.2	6.8%
263	Perot Systems	1,204.7	1,204.7	-2.7	-0.2%	1,204.7	-2.7	-0.4%
264	Acterna	1,196.2	1,196.2	-248.4	-20.8%	1,167.8	-171.8	-12.8%
265	Lam Research Corporation	1,192.2	1,192.2	-148.0	-12.4%	1,519.8	52.1	2.8%
266	American Management Systems	1,183.3	1,183.3	15.9	1.3%	1,183.3	15.9	2.6%
267	Imation Corporation	1,176.5	1,176.5	-1.7	-0.1%	1,176.5	-1.7	-0.2%
268	Spirent	1,163.8	1,163.8	-1,108.2	-95.2%	1,163.8	-1,108.2	-51.4%
269	Micro-Star International	1,161.7	1,161.7	N/A	N/A	1,161.7	N/A	N/A
270	Quantum	1,153.8	1,153.8	88.5	7.7%	1,405.8	160.7	8.5%
271	Thomas & Betts	1,153.1	1,497.5	-146.4	-9.8%	1,497.5	-146.4	-8.3%

* Calendar year data is for the four quarters ending closest to Dec. 31, 2001.

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N/A = Not Available.

¹ All figures are for fiscal year-end other than 12/31.

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³ The merger of Sanmina and SCI was completed December 2001. Figures for Calendar and Fiscal Year are those reported by Sanmina and SCI in 2001. Estimated sales for Sanmina-SCI for FY 2001 had the merger been completed earlier in the year are estimated at over \$12 billion.

Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
-156.0%	65.7%	N/A	N/A	6.7%	99.0	26.2%	12/31/01
-269.4%	312.8%	75.9%	25.8%	5.0%	66.7	14.2%	3/31/01
2.5%	53.1%	54.3%	30.9%	6.1%	123.2	-1.4%	12/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88.2%	261.3%	81.7%	4.9%	0.1%	233.4	10.0%	1/31/01
10.9%	8.4%	79.8%	117.5%	N/A	88.1	N/A	3/31/01
16.5%	42.1%	87.3%	8.3%	N/A	668.7	N/A	3/31/01
10.3%	47.9%	61.7%	23.3%	9.5%	475.3	6.7%	3/31/01
2.2%	108.6%	80.1%	8.9%	5.4%	891.4	0.2%	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-15.4%	41.9%	92.7%	4.3%	N/A	301.7	44.7%	12/31/01
20.2%	73.1%	39.4%	21.2%	19.0%	192.3	44.1%	1/31/01
N/A	-163.2%	90.8%	N/A	N/A	N/A	N/A	12/31/01
9.9%	42.7%	68.7%	24.6%	N/A	167.7	1.8%	12/31/01
33.3%	0.0%	6.6%	42.2%	18.2%	406.0	9.3%	11/30/01
14.7%	180.3%	70.7%	17.8%	N/A	51.3	-0.9%	3/31/01
-121.0%	-45.8%	N/A	N/A	N/A	206.8	23.2%	5/31/01
N/A	-268.1%	82.3%	16.9%	6.7%	129.5	N/A	12/31/01
17.4%	22.3%	51.9%	32.7%	N/A	240.2	7.2%	3/31/01
N/A	-287.6%	86.4%	8.0%	N/A	64.2	6.7%	12/31/01
N/A	N/A	N/A	N/A	N/A	318.9	N/A	12/31/01
-0.5%	0.0%	78.8%	21.3%	N/A	148.7	15.0%	12/31/01
N/A	-1345.5%	40.1%	37.6%	12.9%	220.3	31.9%	3/31/01
7.3%	93.9%	57.0%	14.4%	14.9%	482.5	3.9%	6/30/01
4.2%	0.0%	59.0%	29.8%	N/A	169.0	7.8%	12/31/01
-0.3%	2.0%	70.5%	20.2%	5.3%	346.0	-12.4%	12/31/01
-69.8%	0.0%	61.2%	130.4%	12.0%	149.0	9.0%	12/31/01
N/A	N/A	N/A	N/A	N/A	1,153.6	N/A	12/31/01
12.4%	22.2%	55.7%	16.5%	9.3%	439.3	-20.5%	3/31/01
-21.4%	98.3%	73.2%	23.1%	N/A	136.1	-5.5%	12/31/01

Net income (loss) is after income taxes.

Return on assets is net income divided by total assets.

Debt to equity is long and short-term debt divided by shareholders' equity

Five-year annual revenue growth is the compound annual growth rate.

Cost of sales is cost of goods sold or cost or revenue.

Source: Reed Research Group

TOP 300 GLOBAL ELECTRONICS COMPANIES

Rank	Company Name	Calendar year 2001				Fiscal year 2001		
		Electronics revenues ** (\$ millions)	Total Revenue (\$ millions)	Net Income (\$ millions)	Net Income as a % of revenues	Total revenues (\$ millions)	Net income (\$ millions)	Return on assets (%)
272	Xilinx	1,149.0	1,149.0	-309.9	-27.0%	1,659.4	35.3	1.4%
273	Grundig	1,135.0	1,135.0	-133.1	-11.7%	1,135.0	-133.1	N/A
274	Olivetti	1,134.6	28,366.2	-2,737.7	-9.7%	28,366.2	-2,737.7	-3.3%
275	The Titan Corporation	1,132.1	1,132.1	-98.6	-8.7%	1,132.1	-98.6	-7.3%
276	Audiovox *	1,128.0	1,128.0	-14.8	-1.3%	1,267.7	-8.2	-1.5%
277	APW Ltd. *	1,127.8	1,127.8	-281.6	-25.0%	1,267.7	-232.2	-17.8%
278	Arima	1,111.9	1,111.9	N/A	N/A	1,111.9	N/A	N/A
279	Maxim Integrated Products	1,111.4	1,111.4	211.6	19.0%	1,576.6	334.9	13.8%
280	Amphenol Corporation	1,103.8	1,103.8	83.7	7.6%	1,103.8	83.7	8.2%
281	CGI Group	1,098.4	1,098.4	51.7	4.7%	1,002.1	39.8	3.0%
282	Advanced Semiconductor Engineering	1,097.0	1,097.0	-61.0	-5.6%	1,097.0	-61.0	-2.0%
283	Yaskawa Electric ¹	1,079.4	2,158.8	26.9	1.2%	2,158.8	26.9	1.3%
284	Novell *	1,066.2	1,066.2	-256.7	-24.1%	1,040.1	-272.8	-14.3%
285	Fanuc ¹	1,065.7	2,131.4	381.3	17.9%	2,131.4	381.3	6.5%
286	Tektronix *	1,063.2	1,063.2	92.1	8.7%	1,235.3	140.1	9.2%
287	Nitto Denko ¹	1,062.6	2,951.6	127.9	4.3%	2,951.6	127.9	4.4%
288	Shinko Shoji ¹	1,059.2	1,059.2	11.8	1.1%	1,059.2	11.8	N/A
289	Nippon Chemi-Con ¹	1,049.4	1,049.4	63.7	6.1%	1,049.4	63.7	5.4%
290	Universal Scientific	1,017.0	1,017.0	33.0	3.2%	1,017.0	33.0	N/A
291	ECI Telecom	1,014.6	1,014.6	-412.0	-40.6%	1,014.6	-412.0	-29.1%
292	Symantec	1,011.2	1,011.2	-60.3	-6.0%	853.6	63.9	3.6%
293	Valeo	997.2	9,065.3	-523.5	-5.8%	9,065.3	-523.5	-7.3%
294	Andrew Corporation	992.4	992.4	56.0	5.6%	1,049.5	61.6	7.2%
295	Plexus Corp	990.5	990.5	24.0	2.4%	1,062.3	39.2	6.5%
296	CMK ¹	987.0	987.0	33.8	3.4%	987.0	33.8	2.9%
297	i2 Technologies	985.6	985.6	-7,751.2	-786.4%	985.6	-7,751.2	-432.8%
298	GTECH Holdings *	981.1	981.1	83.2	8.5%	936.5	43.1	4.6%
299	BEA Systems *	975.9	975.9	-35.7	-3.7%	819.8	17.1	1.1%
300	Orion Electric Co. ²	975.3	975.3	-204.4	-21.0%	975.3	-204.4	-17.0%

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Return on equity (%)	Debt to equity (%)	Cost of sales (% of revenues)	SG&A costs (% of revenues)	R&D spending (% of revenues)	Revenues per employee (\$ thousands)	5-year annual revenue growth%	Fiscal year ended
1.8%	0.0%	40.9%	16.5%	12.8%	619.6	24.2%	3/31/01
-484.0%	0.0%	N/A	N/A	4.4%	210.8	N/A	12/31/01
-24.3%	0.0%	87.0%	N/A	1.5%	244.5	N/A	12/31/01
-20.5%	122.0%	74.6%	19.8%	1.1%	117.3	52.4%	12/31/01
-2.5%	32.2%	92.1%	6.9%	N/A	1,287.0	16.2%	11/30/01
-55.8%	148.4%	81.7%	17.9%	0.4%	154.6	37.0%	8/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/31/01
15.9%	0.0%	34.1%	9.6%	17.8%	249.6	30.2%	6/30/01
80.6%	693.3%	63.8%	14.1%	2.0%	107.2	7.3%	12/31/01
4.2%	2.7%	84.6%	0.8%	N/A	77.1	62.1%	9/30/01
-5.1%	103.5%	86.0%	8.2%	3.9%	N/A	11.1%	12/31/01
7.0%	91.5%	71.9%	23.6%	N/A	240.7	N/A	3/31/01
-21.5%	0.0%	31.5%	53.9%	18.4%	159.5	-5.4%	10/31/01
6.4%	3.1%	53.7%	13.0%	N/A	N/A	6.1%	3/31/01
13.8%	12.6%	48.1%	25.3%	12.4%	251.9	-6.9%	5/31/01
7.0%	4.3%	70.9%	19.6%	3.4%	343.8	6.2%	3/31/01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	3/31/01
10.5%	45.6%	77.6%	11.0%	0.9%	554.1	-4.3%	3/31/01
N/A	N/A	N/A	N/A	N/A	254.3	N/A	12/31/01
-54.6%	15.9%	70.7%	24.4%	13.9%	N/A	11.5%	12/31/01
4.6%	0.2%	8.9%	61.1%	N/A	224.6	13.9%	3/31/01
-24.7%	55.6%	83.6%	6.5%	6.0%	129.5	10.4%	12/31/01
10.3%	18.2%	69.7%	16.4%	4.6%	203.6	5.7%	9/30/01
9.2%	18.3%	85.2%	5.3%	N/A	189.7	27.4%	9/30/01
7.9%	89.7%	83.3%	9.1%	N/A	159.7	N/A	3/31/01
-868.8%	46.1%	37.0%	58.2%	29.5%	205.3	66.8%	12/31/01
13.7%	102.7%	100.0%	17.9%	N/A	201.4	4.7%	2/28/01
2.8%	95.3%	24.3%	58.8%	N/A	263.5	176.2%	1/31/01
-17.0%	10.8%	98.3%	4.8%	N/A	314.8	N/A	12/31/01

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