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Figure 5	Estimated Market Share by Process Technology and Region for 8-Bit Microcontrollers, 1981-1986

Table 1
Estimated Market Share by Product Type for 8-Bit Microcontrollers 1975-1986

	<u>1975</u>	<u> 1976</u>	1977	1978	<u> 1979</u>	1980
50XXX						
6805/14805/68705/1468705					0.03%	2.12%
8049/80C49/8749					4.05	9.71
8051/80C51/8751						
uPD78XX						
6801/6301/68701					0.11	0.90
84XX/84CXX						
8048/80C48/8748			11.87%	24.12%	27.50	31.86
387X/F8			3.95	19.97	21.83	21.30
PIC-1650				20.29	35.37	25.76
Z8						0.06
6500					0.07	0.50
8052/80C52						
8041/8741						
8050/80C50						
802XX					1.38	0.09
Others	100.00%	100.00%	<u>84.18</u>	35.62	9.66	<u>7.70</u>
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

(Continued)

Table 1 (Continued)

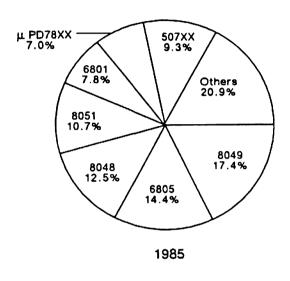
Estimated Market Share by Product Type for 8-Bit Microcontrollers 1975-1986

	1981	<u>1982</u>	<u>1983</u>	<u>1984</u>	1985	<u> 1986</u>
50XXX					9.28%	14.65%
6805/14805/68705/1468705	\$.00%	12.12%	12.19%	11.36%	14.40	14.57
8049/80C49/8749	15.02	18.48	18.38	18.86	17.39	13.35
8051/80C51/8751	0.07	0.88	5.78	13.08	10.72	10.30
uPD78XX	1.40	3.79	5.47	7.20	7.02	9.01
6801/6301/68701	5.38	7.84	10.49	7.77	7.80	7,17
84XX/84CXX		0.15	2.14	1.53	3.80	7.04
8048/80C48/8748	26.44	25.00	20.89	20.72	12.54	6.06
387X/F8	18.74	9.06	4.76	2.57	2.68	3.01
PIC-1650	11.81	7.76	7.31	5.75	4.46	2.25
28	0.99	1.73	2,17	2.54	1.70	2.16
6500	0.99	0.58	1.26	1.18	1,20	1.75
8052/80C52					0.18	1.60
8041/8741				1.60	2.28	1.48
8050/80C50	1.16	1.86	2,42	1.70	1.30	1.32
802XX	7.28	8.14	3.90	2.02	1.67	0.87
Others	2.72	2.61	2.84	2.12	1.58	3.41
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Dataquest

October 1987

Figure 1
Estimated Market Share by Product Type for 8-Bit Microcontrollers
1985 and 1986



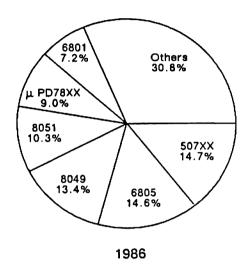


Table 2
Estimated Market Share by Manufacturer for 8-Bit Microcontrollers
1981-1986

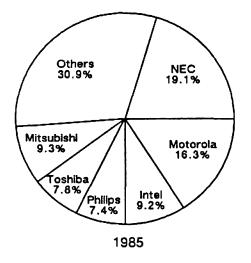
	1981	1982	1983	1984	1985	1986
MEC	13.88%	18.13	19.26%	22.42	19.08%	18.41%
Motorola	13.98	17.55	18.77	13.99	16.30	16.49
Mitsubishi					9.28	14.65
Philips	1.06	2.34	3.97	6.34	7.36	9.00
Intel	23.94	21.49	17.92	16.68	9.15	8.66
Hitachi	1.40	3.34	4.10	4.34	4.79	5.19
Toshiba	1.00	2.42	3.88	5.96	7.75	3.58
Signetics	0.00	0.32	2.35	4.71	3.99	2.94
SGS	0.74	1.29	1.28	0.99	1.50	2.65
General Instrument	11.81	7.76	7.31	5.80	4.57	2.61
Oki		0.30	1.14	1.47	1.53	2.50
Siemens	2.42	4.05	3.13	2.39	2.68	2.36
National	4.71	5.75	4.76	4.27	3.44	1.63
Zilog	0.98	1.26	0.94	1.25	1.29	1.52
Rockwell*						1.25
Texas Instruments						1.25
Natra-Harris*						1.05
NO.	0.79	0.79	0.75	1.41	1.03	_
Others*	23.22	13.21	10.44	7.98	6.26	4.26
Total	100.00%	100.00%	100.00	100.00%	100.00%	100.00%

*Companies combined with Others category in current or prior years, where Others represent companies each with less than 1 percent of total.

Source: Dataquest October 1987

Figure 2

Estimated Market Share by Manufacturer for 8-Bit Microcontrollers 1985 and 1986



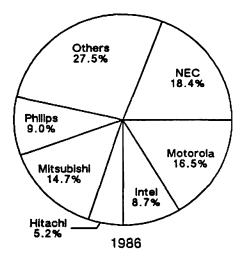


Table 3

Estimated Market Share by Region for 8-Bit Microcontrollers 1981-1986

	<u>1981</u>	<u>1982</u>	1983	1984	1985	1986
Europe						
Shipments	1,475	4,327	8,138	17,423	21,702	40,262
Percent	4.225	8.00%	8.98%	11.36%	13.31	19.73%
Japan						
Shipments	7,014	14,689	28,400	59,835	69,726	91,570
Percent	20.08%	27.14%	31.34	36.31%	42.76%	44.87%
United States						
Shipments	26,442	35,098	54,077	86,252	71,639	72,252
Percent	<u>75.70</u> %	64.86	<u>59.68</u>	52.33	43.93	35.40
Total						
Shipments	34,931	54,114	90,615	163,510	163,067	204,084
Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Dataquest October 1987

Figure 3

Estimated Market Share by Region for 8-Bit Microcontrollers 1981-1986

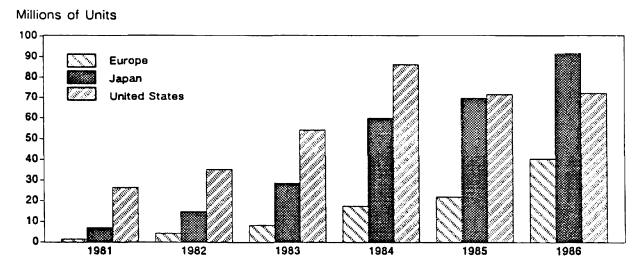


Table 4

Estimated Market Share by Process Technology for 8-Bit Microcontrollers 1981-1986 (Thousands of Units)

	<u>1981</u>	1982	<u>1983</u>	1984	<u>1985</u>	<u>1986</u>
CMOS						
Shipments	95	1,728	7,808	16,411	42,974	77,901
Percent	0.27%	3.19%	8.62%	10.04%	26.35%	38.17%
NMOS						
Shipments	34,836	52,386	82,807	147,099	120,093	126,184
Percent	<u>99.73</u> %	96.81%	<u>91.38</u> %	<u>89.96</u> %	<u>73.65</u> %	61.83%
Total						
Shipments	34,931	54,114	90,615	163,510	163,067	204,084

Source: Dataquest

October 1987

Figure 4

Estimated Market Share by Process Technology for 8-Bit Microcontrollers 1981-1986

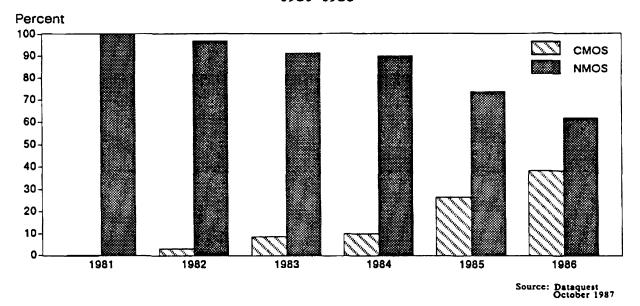


Table 5

Estimated Market Share by Process Technology and Region for 8-Bit Microcontrollers
1981-1986
(Thousands of Units)

	<u>1981</u>	1982	<u>1983</u>	1984	1985	<u>1986</u>
CMOS						
Europe						
Shipments		•		23	155	782.5
Percent				0.01%	0.10%	0.38%
Japan						
Shipments	0	1,033	4,732	10,832	36,447	68,767
Percent	0	1.91%	5.22%	6.62%	22.35%	33.70%
United States						
Shipments	95	695	3,076	5,556	6,372	8,351.8
Percent	<u>0.27</u> %	<u>1.28</u> %	<u>3.39</u> %	3.40%	<u>3.91</u> %	4.09%
Subtotal						
Shipments	95	1,728	7,808	16,411	42,974	77,900.3
Percent						
of Total	0.27%	3.19%	8.62%	10.04%	26.35%	38.17%
NMOS						
Europe						
Shipments	1,475	4,327	8,138	17,400	21,547	39,479.5
Percent	4.22%	8.00%	8.98%	10.64%	13.21%	19.34%
Japan						
Shipments	7,014	13,656	23,668	49,003	33,279	22,803
Percent	20.08%	25.24%	26.12%	29.97%	20.41%	11.17%
United States						
Shipments	26,347	34,403	51,001	80,696	65,267	63,901
Percent	<u>75.43</u> %	<u>63.57</u> %	<u>56.29</u> %	<u>49.35</u> %	40.02%	<u>31.31</u> %
Subtotal						
Shipments	34,836	52,386	82,807	147,099	120,093	126,183.5
Percent						
of Total	99.73%	96.81%	91.38%	89.96%	73.65%	61.83%
Total						
Shipments	34,931	54,114	90,615	163,510	163,067	204,084
Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Dataquest

October 1987

Figure 5

Estimated Market Share by Process Technology and Region for 8-Bit Microcontrollers 1981-1986

