

16-Bit Microcontrollers--Historical Shipment Data

The following section includes historical microcontroller unit shipments by year, manufacturer, product name, and process technology.

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Table 1

**Estimated 16-Bit Microcontroller Unit Shipments by Manufacturer
1980-1984
(Thousands of Units)**

	<u>Product</u>	<u>Process</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Intel	8096	N	0	0	0	0	1
Mostek	68200	N	0	0	0	0	0
NEC	V35	C	0	0	0	0	0
National	HPC	C	0	0	0	0	0
Texas Instruments	9940	N	8	36	50	89	122
Total 16-Bit MCUs			8	36	50	89	123

Source: Dataquest
September 1989

Table 2

**Estimated 16-Bit Microcontroller Unit Shipments by Manufacturer
1985-1988
(Thousands of Units)**

	<u>Product</u>	<u>Process</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>
Intel	8096	N	145	269	548	1,670
	8098	N				80
	80C196	C				60
National	HPC	C	0	0	25	250
NEC	V35	C	0	0	2	9
SGS-Thomson	68200	N	12	129	110	64
Texas Instruments	9940	N	75	1	0	0
Various*	8061	C	N/A	N/A	2,626	3,328
Total 16-Bit MCUs			232	399	3,311	5,461

N/A = Not Applicable

*The 8061 is a custom-designed 16-bit microcontroller for Ford Motor Company. It is supplied by several semiconductor companies including Intel. Estimated production of the 8061 is based on production of Ford automobiles and trucks. (No attempt to estimate production prior to 1987 has been made.)

Source: Dataquest
September 1989

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Table 3

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1980
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/80</u>	<u>Q2/80</u>	<u>Q3/80</u>	<u>Q4/80</u>	<u>1980</u>
Texas Instruments	9940	N	1	1	2	4	8
Total 16-Bit MCUs			1	1	2	4	8

Source: Dataquest
September 1989

Table 4

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1981
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/81</u>	<u>Q2/81</u>	<u>Q3/81</u>	<u>Q4/81</u>	<u>1981</u>
Texas Instruments	9940	N	6	10	10	10	36
Total 16-Bit MCUs			6	10	10	10	36

Source: Dataquest
September 1989

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Table 5

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1982
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/82</u>	<u>Q2/82</u>	<u>Q3/82</u>	<u>Q4/82</u>	<u>1982</u>
Texas Instruments	9940	N	10	10	15	15	50
Total 16-Bit MCUs			10	10	15	15	50

Source: Dataquest
September 1989

Table 6

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1983
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/83</u>	<u>Q2/83</u>	<u>Q3/83</u>	<u>Q4/83</u>	<u>1983</u>
Texas Instruments	9940	N	20	22	22	25	89
Total 16-Bit MCUs			20	22	22	25	89

Source: Dataquest
September 1989

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Table 7

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1984
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/84</u>	<u>Q2/84</u>	<u>Q3/84</u>	<u>Q4/84</u>	<u>1984</u>
Intel	8096	N	0	0	0	1	1
Texas Instruments	9940	N	<u>30</u>	<u>30</u>	<u>31</u>	<u>31</u>	<u>122</u>
Total 16-Bit MCUs			30	30	31	32	123

Source: Dataquest
September 1989

Table 8

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1985
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/85</u>	<u>Q2/85</u>	<u>Q3/85</u>	<u>Q4/85</u>	<u>1985</u>
Intel	8096	N	25	40	40	40	145
TCMC (Mostek)*	68200	N	0	0	1	11	12
Texas Instruments	9940	N	<u>25</u>	<u>15</u>	<u>15</u>	<u>20</u>	<u>75</u>
Total 16-Bit MCUs			50	55	56	71	232

*Thomson Components acquired Mostek Corporation in 1985, forming Thomson Components Mostek Corporation (TCMC).

Source: Dataquest
September 1989

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Table 9

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1986
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/86</u>	<u>Q2/86</u>	<u>Q3/86</u>	<u>Q4/86</u>	<u>1986</u>
Intel	8096	N	58	66	73	72	269
TCMC (Mostek)	68200	N	18	32	44	35	129
Texas Instruments	9940	N	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total 16-Bit MCUs			77	98	117	107	399

Source: Dataquest
September 1989

Table 10

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1987
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/87</u>	<u>Q2/87</u>	<u>Q3/87</u>	<u>Q4/87</u>	<u>1987</u>
Intel	8096	N	86	82	130	250	548
NEC	V35	C	0	0	0	2	2
National	HPC	C	0	0	0	25	25
SGS-Thomson	68200	N	10	20	55	25	110
Various*	8061	C	<u>685</u>	<u>570</u>	<u>645</u>	<u>726</u>	<u>2,626</u>
Total 16-Bit MCUs			781	672	830	1,028	3,311

*The 8061 is a custom-designed 16-bit microcontroller for Ford Motor Company. It is supplied by several semiconductor companies including Intel. Estimated production of the 8061 based on production of Ford automobiles and trucks. (No attempt to estimate production prior to 1987 has been made.)

Source: Dataquest
September 1989

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Table 11

Estimated 16-Bit Microcontroller Unit Shipments by Quarter for 1988
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>Q1/87</u>	<u>Q2/87</u>	<u>Q3/87</u>	<u>Q4/87</u>	<u>1987</u>
Intel	8096	N	300	400	370	600	1,670
	8098	N	0	20	30	30	80
	80C196	C	10	20	10	20	60
National	HPC	C	40	55	80	75	250
NEC	V35	C	2	2	2	3	9
SGS-Thomson	68200	N	16	19	0	29	64
Various*	8061	C	<u>902</u>	<u>940</u>	<u>656</u>	<u>830</u>	<u>3,328</u>
Total 16-Bit MCUs			1,270	1,456	1,148	1,587	5,461

Source: Dataquest
September 1989

*The 8061 is a custom designed 16-bit microcontroller for Ford Motor Company. It is supplied by several semiconductor companies including Intel. Estimated production of the 8061 is based on production of Ford automobiles and trucks.

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16-Bit Microcontroller Data

The following table lists historical unit shipments of 16-bit MCUs by manufacturer, by product name, and technology for 1979 through 1986.

Table 1
16-Bit Microcontroller Shipment Estimates
1979-1986
(Thousands of Units)

	<u>Product</u>	<u>Process</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	
Intel	8096	N					S	S	145	269	
Mostek	68200	N							12	129	
TI	9940	N	5	8	36	50	89	122	75	1	
Total			5	8	36	50	89	122	232	399	
						22.50	17. ⁰⁰	12.50	11.00	17.40	17.49

ASP

*S = Sampled

Source: Dataquest
 October 1987