

Communication Equipment

1999

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Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1997 Manufacturing Profiles, issued August 1999.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

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NOTE: Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable

to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

Summary of Findings

During 1999, the total value of shipments for communications equipment totaled \$84.6 billion, an increase of 2.8 percent from the 1998 value of \$82.2 billion. Shipments of telephone switching equipment totaled \$13.9 billion, an increase of 11.6 percent from the \$12.4 billion shipped in 1998. Shipments of carrier line equipment and nonconsumer modems decreased 3.3 percent, from \$9.4 billion in 1998 to \$9.1 billion in 1999. Other telephone and telegraph equipment shipped in 1999 totaled \$20.4 billion, an increase of 2.4 percent from the \$19.9 billion shipped in 1998. Communications systems and equipment increased 0.6 percent, from \$31.1 billion shipped in 1998 to \$31.3 billion in 1999. Shipments of broadcast, studio, and related electronic equipment increased 8.9 percent, from \$3.6 billion shipped in 1998 to \$3.9 billion shipped in 1999. Alarm systems totaled \$2.1 billion in 1999, an increase of 4.7 percent from the \$2.0 billion in 1998.

Current
Industrial
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Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Cynthia Ramsey, 301-457-4823.

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U S C E N S U S B U R E A U

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Table 1. Value of Shipments of Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment by Class of Product: 1989 to 1999
[Millions of dollars]

Product code	Product description	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
	Communication equipment, including telephone, telegraph, and other electronic systems and equipment.....	84,525.5	r/ 82,198.4	73,587.8	65,608.6	56,362.0	49,598.1	42,113.8	39,501.9	37,821.0	36,990.3	35,415.7
3342101	Telephone switching and switchboard equipment.....	13,864.2	12,422.2	10,302.2	9,617.7	8,178.4	8,067.6	7,240.9	7,291.3	6,956.6	7,537.1	6,975.5
3342104	Carrier line equipment and modems.....	9,065.3	r/ 9,378.8	7,278.1	7,544.6	5,868.6	5,114.0	4,993.3	4,810.6	4,298.4	5,013.8	4,705.7
3342107	Other telephone and telegraph equipment and components 1/.....	20,380.5	19,896.8	16,488.1	14,030.9	10,510.0	8,479.5	7,026.4	5,507.3	4,909.5	3,180.5	3,061.8
3342201	Communication systems and equipment (except broadcast).....	31,302.4	31,127.7	29,416.0	25,332.5	23,031.9	19,977.5	16,196.7	15,162.8	14,987.9	14,768.0	14,016.3
3342203	Broadcast, studio, and related electronic equipment.....	3,946.9	3,625.3	3,360.5	3,000.2	2,844.7	2,469.5	2,077.5	1,948.2	1,836.3	1,856.4	1,809.6
3342903	Intercommunications systems, including inductive paging systems (selective calling).....	263.5	248.9	256.4	277.8	296.0	283.7	241.7	288.5	303.8	346.1	367.8
3342901	Alarm systems.....	2,118.2	2,024.1	1,926.5	1,802.8	1,662.1	1,550.5	1,532.4	1,370.4	1,145.0	1,027.2	1,132.5
3342902	Vehicular and pedestrian traffic control equipment and electrical railway signals and attachments.....	1,038.1	r/ 911.8	963.7	762.0	710.7	669.9	573.4	597.3	491.1	470.6	451.1
3333197	Electronic teaching machines, teaching aids, trainers and simulators.....	693.2	r/ 713.0	872.0	865.7	913.3	838.5	847.7	1,310.8	1,411.0	1,208.8	1,359.6
3359997	Laser sources 2/.....	(S)	(S)	991.8	843.8	787.5	726.4	(NA)	(NA)	(NA)	(NA)	(NA)
335999A	Ultrasonic equipment.....	203.1	r/ 204.7	212.9	184.3	172.3	137.5	127.3	119.2	113.7	108.8	137.7
335999C	Other electronic systems and equipment, n.e.c.	1,650.1	r/ 1,645.1	1,519.7	1,346.3	1,386.5	1,283.5	1,256.5	1,095.5	720.8	1,473.0	1,398.1

NA Not available. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards.

1/Total for product class 3342104 does not include product code 3344184005.

2/Beginning in 1994, data for "Laser equipment, instrumentation, and components" have been eliminated from this survey. Only "Laser sources" are being collected.

Table 2. Quantity and Value of Shipments of Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment by Product Code: 1999 and 1998
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3342101	Telephone switching and switchboard equipment.....	(NA)	(X)	13,865,270	(X)	12,422,233
3342101005	Central office switching equipment.....	30	(X)	7,045,065	(X)	6,065,907
	Private branch exchange switching equipment:					
3342101012	Up to 399 lines.....	11	(X)	848,837	(X)	850,181
3342101015	400-1,000 lines.....	7	(X) a/	162,122	(X)	146,627
3342101017	Over 1,000 lines.....	7	(X) b/	120,980	(X) a/	118,614
3342101021	Cellular mobile telephone switching equipment 1/.....	11	(X)	(D)	(X)	(D)
3342101023	Packet switching equipment 1/.....	8	(X)	(D)	(X)	(D)
3342101025	Other telephone switching and switchboard equipment.....	32	(X) c/	1,300,046	(X) a/	1,392,958
3342101099	Parts, components and subassemblies for telephone switching equipment.....	25	(X) a/	326,539	(X)	408,294
3342104	Carrier line equipment and modems 2/.....	(NA)	(X)	9,296,935	(X) r/	9,378,790
	Carrier line equipment:					
3342104002	Repeaters and line transceivers, analog and digital 3/.....	16		(D)	(X)	(D)
3342104012	Multiplex equipment, including channel banks, analog and digital.....	33	(X) a/	1,427,562	(X) b/	1,395,246
3342104022	Other subscriber loop carrier terminal and line equipment, analog and digital.....	25	(X) b/	2,173,536	(X) b/	2,427,755
3342104032	All other carrier line equipment, analog and digital 3/.....	26	(X)	(D)	(X)	(D)
3342104042	External modems for POTS, ISDN, DSL, PSTN lines transmission.....	13	(X) c/	320,242	(D) c/r/	215,284
3344184005	External modems for individual PC's.....	19	(X) a/	231,670	(X) b/	740,589
3342107	Other telephone and telegraph equipment and components.....	(NA)	(X)	20,387,222	(X) a/r/	19,896,839
	Telephone sets:					
3342107001	Single line and ISDN sets.....	13	c/	1,693,928	c/	86,410
3342107003	Key sets 4/.....	6		(D)	a/r/	1,466,603
3342107005	Public pay telephone equipment.....	6	a/	483,353	c/	119,799
3342107007	Cordless handsets 4/.....	3		(D)	a/r/	644,650
3342107009	Other telephone sets and accessories (e.g. handsets).....	17	(X) b/	169,838	(D)	131,665
3342107022	Data communications equipment, including routers, gateways, bridges, terminal servers, and concentrators.....	58	(X) c/	14,151,281	(X) a/r/	14,329,539
3342107051	Voice frequency equipment.....	12	(X)	36,225	(X) c/r/	44,565
3342107062	Voice/call message processing equipment, including answering devices.....	37	(X) a/	1,893,416	(X) c/	1,690,708
3342107091	Facsimile communication equipment (complete).....	6	(X) b/	22,300	(X) r/	26,143
3342107097	Other telephone/telegraph equipment.....	62	(X) a/	3,330,320	(X) a/r/	2,943,460
3342107099	Parts, components and subassemblies for other telephone equipment.....	26	(X) b/	428,750	(X)	353,516
3342201	Communications systems and equipment (except broadcast).....	(NA)	(X)	31,722,033	(X) r/	31,127,659
	Radio station type 5/.....	(NA)	(X)	21,072,630	(X) r/	20,512,269
3342201301	Amateur.....	14	(X) c/	10,381	(X) b/r/	9,532
3342201307	Meteorological 6/.....	6	(X)	(D)	(X)	68,614
3342201101	Fixed.....	24	(X) a/	2,647,399	(X) a/	2,592,341
3342201311	Telecommand 6/.....	3	(X)	(D)	(X) a/r/	19,065
3342201313	Telemetry.....	14	(X) a/	71,620	(X) a/r/	87,189
3342201315	Radionavigational and locational.....	10	(X) c/	303,430	(X) a/	441,426
3342201317	Aeronautical communications.....	11	(X) a/	458,938	(X)	447,930
	Mobile:					
	Cellular system equipment:					
3342201201	Analog 7/.....	7	(X)	(D)	(X)	(D)
3342201204	Digital 7/.....	12	(X)	(D)	(X)	(D)
3342201207	Other conventional and trunked system equipment.....	15	(X) c/	217,978	(X)	295,405
3342201209	Other mobile.....	12	(X) a/	154,674	(X) a/	121,088

Continued

Table 2. Quantity and Value of Shipments of Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment by Product Code: 1999 and 1998
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3342201319	Other.....	35	(X) a/	4,540,214	(X) a/	4,565,395
3342201401	Other type.....	(NA)	(X)	10,649,403	(X) r/	11,209,915
	Checkout, monitoring, evaluation and other electronic support equipment for communications systems.....	52	(X) b/	821,048	(X) b/	601,757
	Antenna systems, sold separately:					
3342201405	Below 890 MHz.....	49	(X) a/	802,325	(X) a/	689,564
3342201407	890 MHz and above.....	52	(X) b/	493,793	(X) b/r/	505,946
	Fiber optics equipment, excluding connectors, cable, photodiode and laser diode components, microwave equipment, and multiplexors:					
3342201415	Equipment meeting SONET standards.....	12	(X) b/	693,121	(X) b/r/	638,462
3342201419	Equipment not meeting SONET standards.....	18	(X) b/	641,266	(X) b/	592,995
3342201421	Other carrier equipment, n.e.c.	23	(X) b/	139,694	(X) a/	251,037
3342201425	Other communications systems and equipment.....	173	(X) b/	7,058,156	(X) a/r/	7,335,629
3342203	Broadcast, studio, and related electronic equipment.....	(NA)	(X)	3,786,486	(X)	3,603,254
	Audio equipment, excluding consumer and P.A. types:					
3342203001	Amplifiers and preamplifiers.....	33	c/	665,358	c/r/	741,191
3342203004	Control consoles and switchers.....	21	c/	39,658	c/r/	42,859
3342203009	Other (power supplies, terminal equipment broadcast recorders, etc.)	35	(X) a/	214,350	(X) b/	216,053
3342203013	Video equipment, including amplifiers, television cameras, and tape recorders, excluding consumer and P.A. types.....	-	(X) c/	400,844	(X) b/r/	458,482
3342203021	AM and FM transmitters.....	11	(X) c/	62,371	(X)	59,271
3342203024	Television transmitters.....	8	(X) b/	141,529	(X) b/r/	177,195
3342203027	Other (broadcast transmission line equipment, phasing equipment, Television boosters and repeaters (translators), etc.).....	25	(X)	816,848	(X) a/	720,609
3342203029	Studio transmission links (STL) and remote pickup equipment.....	4	(X) a/	34,891	(X) a/r/	35,860
	Cable television (master antennae and CATV equipment):					
3342203032	Head end equipment (antennae baluns, carrier generators, head end control units, single and broadband pre-amplifiers and strip amplifiers, converters, modulators and demodulators; splitting filters and traps, power supplies, switches, etc.).....	20	(X)	420,151	(X) r/	391,871
3342203038	Subscriber equipment (decoders, switchers; wall outlet taps; distribution amplifiers; power suppliers; directional couplers, splitters, alternators, and equalizers)	8	(X) c/	231,852	(X) r/	244,906
3342203041	Broadcasting transmitting antennae and community antennae systems.....	10	(X) b/	88,009	(X) c/	69,868
3342203044	Closed circuit television systems and equipment (specially designed cameras, monitors, video recorders, receivers, scan converters and control consoles), excluding broadcast and consumer products.....	20	(X) b/	526,360	(X)	476,063
3342203047	Other broadcast, studio, theater, and commercial sound equipment (sold separately), excluding studio lighting equipment, radiating and supporting towers.....	7	(X) c/	347,553	(X) c/r/	306,025
3342203099	Parts and accessories for broadcast, studio and related electronic equipment, sold separately.....	19	(X)	63,928	(X) b/	20,609

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Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3342901	Alarm systems.....	(NA)	(X)	2,118,198	(X) r/	2,024,096
	Intrusion detection:					
3342901101	Local.....	24	(X)	162,185	(X) r/	170,642
3342901201	Central station.....	15	(X)	581,854	(X) r/	516,395
3342901601	Direct connect.....	8	(X) c/	13,137	(X) c/r/	12,914
3342901603	Hold-up systems (commercial and industrial) 8/.....	4	(X)	(D)	(X)	(D)
3342901605	Automotive.....	7	(X) c/	179,205	(X) c/r/	185,317
	Fire detection and prevention:					
	Smoke and heat detection alarms:					
3342901301	Ionization chamber type.....	9	(X) c/	97,520	(X) a/r/	183,793
3342901401	Other, including photo cell type.....	19	(X) a/	466,054	(X) r/	327,597
3342901607	Central station.....	10	(X) c/	129,314	(X) r/	131,907
3342901501	Direct connect.....	14	(X) c/	157,283	(X) r/	154,211
3342901609	Other intercommunication and alarm systems, including electric sirens and horns (marine, industrial and air raid) security locking systems 8/.....	25	(X)	(D)	(X)	(D)
3342902	Vehicular and pedestrian traffic control equipment, electrical railway signals and attachments.....	(NA)	(X)	1,038,134	(X) r/	911,816
3342902102	Vehicular and pedestrian traffic control equipment.....	33	(X)	435,790	(X) a/	384,987
3342902202	Railway signals and attachments, electric.....	9	(X)	602,344	(X) b/r/	526,829
3342903	Intercommunications systems, including inductive paging systems (selective calling).....	(NA)	(X)	263,478	(X)	248,907
3342903001	Wired.....	38	(X) b/	227,580	(X) b/r/	218,302
3342903003	Nonwired.....	9	(X) b/	35,898	(X) c/r/	30,605
3333197	Electronic teaching machines, teaching aids, trainers and simulators	(NA)	(X)	693,193	(X) r/	713,036
3333197001	Electronic trainers and simulators.....	31	(X) b/	652,660	(X) r/	680,179
3333197004	Other electronic teaching machines and teaching aids.....	7	(X) b/	40,533	(X) b/r/	32,857
3359997	Laser sources.....	(NA)	(X)	(S)	(X)	(X)
	Nondiode lasers:					
3359997002	CO2 sealed.....	4	(X)	(S)	(X)	(X)
3359997004	CO2 flowing.....	-	(X)	(S)	(X)	(X)
3359997006	Lamp-pumped solid-state, less than 100 watts.....	5	(X)	(S)	(X)	(X)
3359997008	Lamp-pumped solid-state, 100 watts or greater.....	3	(X)	(S)	(X)	(X)
3359997009	Nondiode-laser pumped solid-state.....	-	(X)	(S)	(X)	(X)
3359997012	Diode-laser pumped solid state, less than 100 watts.....	2	(X)	(S)	(X)	(X)
3359997014	Diode-laser pumped solid state, 100 watts or greater.....	-	(X)	(S)	(X)	(X)
3359997017	HeCd and Ion, less than 1 watt.....	1	(X)	(S)	(X)	(X)
3359997019	Ion, 1 watt or greater.....	-	(X)	(S)	(X)	(X)
3359997022	HeNe.....	1	(X)	(S)	(X)	(X)
3359997023	Dye.....	1	(X)	(S)	(X)	(X)
3359997025	Excimer.....	-	(X)	(S)	(X)	(X)
	Diode lasers, categorized by wavelength:					
3359997031	Less than 700 nm.....	1	(X)	(S)	(X)	(X)
3359997033	700 nm to 1,000 nm less than 10 mW.....	1	(X)	(S)	(X)	(X)
3359997035	700 nm to 1,000 nm 10 mW to less than 3 W.....	1	(X)	(S)	(X)	(X)
3359997037	700 nm to 1,000 nm 3 W to less than 100 W.....	-	(X)	(S)	(X)	(X)
3359997039	700 nm to 1,000 nm 100 W or greater.....	1	(X)	(S)	(X)	(X)
3359997041	1,001 nm to less than 1,700 nm.....	-	(X)	(S)	(X)	(X)
3359997043	1,700 nm or greater.....	-	(X)	(S)	(X)	(X)
335999A000	Ultrasonic equipment, n.e.c.	20	(X)	203,099	(X) r/	204,666

Table 2. Quantity and Value of Shipments of Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment by Product Code: 1999 and 1998
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
335999C	Other electronic systems and equipment, n.e.c.	(NA)	(X)	1,650,085	(X) r/	1,645,090
335999C001	Consumer electronic equipment, n.e.c.	23	(X) a/	479,428	(X) b/r/	468,029
335999C005	Scientific electronic equipment, n.e.c.	17	(X) b/	31,781	(X) b/r/	33,316
335999C011	Industrial electronic equipment, n.e.c.	44	(X) a/	272,913	(X) a/r/	228,498
335999C015	All other electronic equipment, n.e.c.	96	(X) b/	865,963	(X) a/r/	915,247

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards. X Not applicable.

1/Product codes 3342101021 and 3342101023 have a combined total of a/4,060,598 for 1999 and a/3,439,652 for 1998.

2/Product codes 3344184005 is not included in the total for 3342104.

3/Product codes 3342104002 and 3342104032 have a combined total of a/5,143,925 for 1999 and a/r/4,249,275 for 1998.

4/Product codes 3342107003 and 3342107007 have a combined total of 3,510,924 for quantity and a/148,883 for value for 1999 and r/2,633,691 for quantity and a/r/154,232 for value for 1998.

5/Of this total, space based (satellite) accounted for b/\$3.9 billion in 1999 and b/\$4.2 billion in 1998; airborne and marine based accounted for b/\$618 million in 1999 and \$491 million in 1998; earth (fixed) based accounted for a/\$3.7 billion in 1999 and a/\$4.1 billion in 1998; earth (mobile) portable based accounted for a/\$12.4 billion in 1999 and r/\$11.8 billion in 1998.

6/Product codes 3342201307 and 3342201311 have a combined total of 123,869 for 1999.

7/Product codes 3342201201 and 3342201204 have a combined total of b/12,544,127 for 1999 and a/r/11,864,284 for 1998.

8/Product codes 3342901603 and 3342901609 have a combined total of b/331,646 for 1999 and b/r/341,320 for 1998.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item has been estimated. b/26 to 50 percent of this item has been estimated. c/Over 50 percent of this item has been estimated.

Table 3. Shipments, Imports, and Exports of Communications Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment: 1999
 [Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 1/	Imports for consumption (value) 2/
3342101012, 015, 017	Private branch telephonic exchange switching apparatus.....	1,131,939	200,544	86,814
3342101005	Central office telephonic switching apparatus.....	7,045,065	460,185	123,298
3342101021, 023, 025	Telephonic switching apparatus, n.e.c.	5,360,644	185,502	62,611
3342101099	Parts, components, and subassemblies for telephone switching and switchboard apparatus.....	326,539	1,016,988	1,351,897
3342104002	Repeaters and line transceivers, carrier line equipment.....	1,883,896	265,706	5,072
3342104012, 022, 033	Carrier line equipment, n.e.c.	6,861,127	1,526,304	1,837,468
3342107001, 003, 005, 007, 009	Telephone sets, including cordless handset telephones.....	524,930	1,155,841	2,164,665
3344184005, 042	Modems, including auxiliary sets.....	551,912	816,109	959,268
3342107022, 051, 098	Telephone and telegraphic equipment, n.e.c., including voice frequency equipment.....	17,517,826	875,702	507,987
3342107062	Telephone answering devices.....	1,886,659	66,512	162,826
3342107091	Facsimile communication equipment (complete).....	22,300	(NA)	688,964
3342107099	Parts, components, and subassemblies for other telephone equipment.....	428,750	2,669,114	2,190,837
3342203001	Audio amplifiers and preamplifiers, (except consumer and P.A. types).....	331,977	235,831	334,520
3342203021, 024, 027	Transmitters, translators, RF power amplifiers, and related equipment.....	1,020,748	550,289	304,841

Continued

Table 3. Shipments, Imports, and Exports of Communications Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment: 1999
 [Value in thousands of dollars]

	Product description	Manufacturers' shipments	Exports of domestic merchandise	Imports for
3342201201, 204, 207, 209	Mobile radio systems and equipment, including transceivers, and portable receivers, transmitter and receiver, hand held.....	12,497,146	6,549,432	6,019,761
3342903001, 003	Intercommunications systems, including inductive paging systems.....	263,478	33,523	53,629
3342201405, 407, 3342203041	Antennae systems, including broadcasting, transmitting, and community antennae systems.....	1,384,127	694,325	119,758
3342203032, 038, 044	Cable television and closed circuit television systems and equipment, including AM and FM transmitters.....	1,178,363	578,561	-
3342901101, 201, 601, 603, 605, 609	Intrusion detection alarm systems.....	1,268,027	63,878	220,789
3342901301	Smoke detection alarms, ionization type.....	97,520	13,338	109,055
3342901401	Smoke detection alarms, n.e.c., including photo cell type.....	466,054	80,999	74,165
3342901501, 607	Central station and direct connect fire detection and prevention alarm systems...	286,597	133,101	105,008
3342902101, 103	Vehicular and pedestrian traffic control equipment.....	435,790	92,410	66,948
3342902201, 203	Railway signals and attachments, electric.....	602,344	63,550	3,117
3333197001	Electronic trainers and simulators.....	652,660	249,227	277,103
335999A000	Ultrasonic equipment, n.e.c.	203,099	185,912	2,142

- Represents zero. NA Not available. n.e.c. Not elsewhere classified.

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3342101012, 015, 017	Private branch telephonic exchange switching apparatus.....	8517.30.2000	8517.30.2000
3342101005	Central office telephonic switching apparatus.....	8517.30.1500	8517.30.1500
3342101021, 023, 025	Telephonic switching apparatus, n.e.c.	8517.30.3000	8517.30.3000
3342101099	Parts, components, and subassemblies for telephone switching and switchboard apparatus.....	8517.90.2000	8517.90.2400 8517.90.3600 8517.90.5800
3342104002	Repeaters and line transceivers, carrier line equipment.....	8518.40.1000	8518.40.1000
3342104012, 022, 033	Carrier line equipment, n.e.c.	8517.50.5000 8517.50.6000 8517.50.9000	8517.50.5000 8517.50.6000 8517.50.9000
3342107001, 003, 005, 007, 009	Telephone sets, including cordless handset telephones.....	8517.11.0000 8517.19.0000 8518.30.1000 8525.20.9020	8517.11.0000
3344184005, 042	Modems, including auxiliary sets.....	8517.50.1000	8517.50.1000
3342107022, 051, 098	Telephone and telegraphic equipment, n.e.c., including voice frequency equipment.....	8517.30.5000 8517.80.1020 8517.80.2000 8517.30.2500	8517.30.5000 8517.80.1020 8517.80.2000 8517.30.2500
3342107062	Telephone answering devices.....	8520.20.0000	8520.20.0040 8520.20.0080
3342107091	Facsimile communication equipment (complete).....	(NA)	8517.21.0000
3342107099	Parts, components, and subassemblies for other telephone equipment.....	8517.90.5000	8517.90.1200 8517.90.3800 8517.90.5200 8517.90.6400

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Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3342203001	Audio amplifiers and preamplifiers, (except consumer and P.A. types).....	8518.40.2000	8518.40.2000
3342203021, 024, 027	Transmitters, translators, RF power amplifiers, and related equipment.....	8525.10.6010 8525.10.6030 8525.10.6050 8525.10.6070 8525.10.6090 8525.10.8020 8525.10.8040	8525.10.2040 8525.10.6020 8525.10.6040 8525.10.6060 8525.10.6080 8525.10.7025 8525.10.7045 8525.10.7065 8525.10.8000 8525.10.9025 8525.10.9045 8525.10.9065 8525.10.9085 8525.10.9090
3342201201, 204, 207, 209	Mobile radio systems and equipment, including transceivers, and portable receivers, transmitter and receiver, hand held.....	8525.20.1000 8525.20.2000 8525.20.3030 8525.20.3040 8525.20.3042 8525.20.3045 8525.20.3055 8525.20.9040 8525.20.9080 8527.90.8025 8529.90.5000	8525.20.0500 8525.20.1500 8525.20.2400 8525.20.2800 8525.20.3010 8525.20.3015 8525.20.3025 8525.20.3040 8525.20.3060 8525.20.3065 8525.20.3070 8525.20.3080 8525.20.9020 8525.20.9060 8525.20.9070 8525.20.9080 8527.90.9020 8529.90.7600 8529.90.8500
3342903001, 003	Intercommunications systems, including inductive paging systems.....	8517.80.1010 8527.90.8015 8531.80.0035	8517.80.1010 8531.80.4000

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Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3342201405, 407, 3342203041	Antennae systems, including broad-casting, transmitting, and community antennae systems.....	8529.10.2020 8529.10.2050 8529.10.4000 8529.10.6000	8529.10.2020 8529.10.2050 8529.10.4040 8529.10.6000
3342203032, 038, 044	Cable television and closed circuit television systems and equipment, including AM and FM transmitters.....	8525.10.2010 8525.10.2050	8525.10.2030
3342901101, 201, 601, 603, 605, 609	Intrusion detection alarm systems.....	8531.10.0035	8531.10.0035
3342901301	Smoke detection alarms, ionization type.....	9022.29.4000	9022.29.4000
3342901401	Smoke detection alarms, n.e.c., including photo cell type.....	8531.10.0015 8531.10.0025	8531.10.0015 8531.10.0025
3342901501, 607	Central station and direct connect fire detection and prevention alarm systems.....	8531.10.0045	8531.10.0045
3342902101, 103	Vehicular and pedestrian traffic control equipment.....	8530.80.0000 8530.90.0000	8530.80.0000 8530.90.0000
3342902201, 203	Railway signals and attachments, electric.....	8530.10.0000	8530.10.0000
3333197001	Electronic trainers and simulators.....	8805.20.0000	8805.20.0000
335999A000	Ultrasonic equipment, n.e.c.	8456.10.0000 8456.20.0000 8479.89.9585	8456.20.1010 8456.20.1050 8456.20.5000 8479.89.9585

n.e.c. Not elsewhere classified.

1/Source: 1999 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (1999).