

TABLE S6-7

Value added of computer, electronic, and optical products industry, by region, country, or economy: 2002–18

(Millions of current dollars)

Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
World	539,048	614,441	689,386	723,319	778,687	842,427	868,516	780,860	899,269	954,827	959,164	991,876	1,045,364	1,037,998	1,042,180	1,106,974	1,185,851
North America	196,013	213,693	220,536	232,194	247,289	252,599	254,331	242,416	260,320	258,567	262,973	265,916	274,677	292,203	293,145	305,285	324,521
Canada	4,007	4,980	5,778	6,491	6,857	7,317	7,085	6,716	7,726	7,691	6,729	5,896	5,646	4,937	4,289	4,013	4,212
Mexico	19,528	16,524	14,500	15,389	16,653	16,792	15,437	10,882	12,298	12,519	13,680	13,823	16,690	17,982	16,580	17,408	17,568
United States	172,478	192,190	200,258	210,314	223,779	228,490	231,810	224,819	240,295	238,357	242,564	246,197	252,342	269,284	272,276	283,864	302,270
Central and South America	5,212	4,303	6,000	6,959	8,890	9,898	12,300	9,773	12,955	14,196	13,855	14,382	12,895	9,216	8,525	10,337	9,345
Argentina	100	158	239	314	364	449	535	491	646	710	685	651	532	499	489	579	463
Bolivia	4	4	4	4	4	5	5	6	6	6	6	7	7	7	8	9	9
Brazil	4,516	3,565	5,091	5,912	7,717	8,422	10,542	7,876	11,080	12,251	11,536	12,205	10,970	7,026	7,017	8,635	7,746
Chile	1	1	1	1	1	1	1	1	1	1	1	2	5	5	4	4	5
Colombia	97	94	121	108	117	150	125	143	158	178	183	199	172	135	127	140	140
Costa Rica	95	91	103	113	126	144	156	137	166	187	200	203	203	206	211	216	211
Ecuador	177	187	185	202	196	284	297	404	410	278	533	435	409	357	374	344	343
Honduras	51	52	55	60	65	69	75	79	77	94	104	95	101	99	105	108	109
Jamaica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Peru	20	12	14	15	28	36	49	38	45	43	64	71	67	61	53	51	50
Uruguay	2	1	2	5	6	6	9	9	11	11	20	20	25	24	24	23	23
Venezuela	149	137	183	226	267	330	507	591	355	437	523	494	406	796	111	229	247
Europe	103,962	121,224	145,132	150,920	159,592	183,620	188,173	148,277	158,032	174,954	161,054	168,542	172,493	150,226	146,150	139,433	148,754
EU	91,092	105,459	126,577	129,999	136,473	155,785	154,926	122,253	128,403	136,819	122,866	128,826	132,977	118,361	118,820	112,173	119,712
Austria	2,837	3,308	3,813	4,239	4,677	3,552	3,655	3,197	3,063	3,784	3,534	3,849	3,863	3,281	3,496	3,419	3,842
Belgium	1,682	1,946	2,033	2,048	2,193	2,560	2,419	1,343	1,430	1,628	1,572	1,593	1,643	1,387	1,486	1,407	1,469
Bulgaria	62	82	66	83	92	134	140	134	136	166	150	176	208	206	224	293	343
Czechia	705	1,075	1,241	1,481	1,889	2,465	2,746	2,206	2,461	2,661	2,951	2,773	2,861	2,518	2,769	2,819	3,122
Denmark	1,818	2,276	2,370	2,321	2,639	3,104	2,814	2,494	2,624	2,867	2,677	2,822	2,533	2,389	2,456	2,437	2,756
Finland	8,167	10,026	10,962	11,439	12,286	15,320	15,490	9,522	8,742	7,510	3,383	5,258	5,550	4,305	4,177	4,162	4,325
France	14,318	15,868	17,417	16,135	16,187	17,656	17,649	14,703	14,851	15,068	13,775	14,447	14,383	12,651	13,393	12,899	13,296
Germany	25,498	32,135	38,486	38,538	40,429	50,712	48,625	35,499	40,403	45,631	41,316	43,621	45,953	43,045	43,652	42,053	44,768
Greece	443	511	318	447	360	414	426	318	396	291	271	227	244	264	207	206	226
Hungary	991	1,646	2,258	2,623	2,503	2,178	2,452	2,041	2,029	2,712	2,018	2,230	2,113	1,920	1,956	1,943	2,078
Ireland	4,234	4,613	5,640	5,826	6,052	5,280	4,565	4,803	4,193	4,435	4,273	3,962	4,199	10,621	10,298	9,150	10,148
Italy	7,367	8,621	9,961	10,197	10,510	11,895	12,071	10,304	10,812	11,909	10,717	10,530	10,586	9,189	9,626	8,843	9,266
Netherlands	3,544	3,695	4,361	6,070	6,516	7,379	6,842	6,116	5,897	5,683	5,010	5,106	5,147	4,790	4,263	3,894	3,944
Poland	836	1,076	1,169	1,399	1,663	1,713	2,418	2,822	2,259	2,185	2,010	1,856	2,231	1,805	1,732	1,581	1,638
Portugal	596	715	823	874	899	1,076	1,019	623	763	628	513	540	536	464	506	522	571

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Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Romania	160	214	279	238	344	533	544	276	292	214	246	262	469	395	480	638	697
Slovakia	139	186	255	350	615	711	1,094	687	907	983	826	770	881	637	679	624	658
Spain	2,614	3,137	3,330	3,651	3,887	4,948	5,664	4,957	4,415	4,695	4,250	4,336	3,993	3,364	3,349	3,007	3,257
Sweden	4,636	6,427	10,058	9,508	10,498	11,336	11,448	9,227	11,032	11,932	10,819	12,248	12,382	3,268	3,342	2,921	2,680
United Kingdom	10,446	7,901	11,738	12,531	12,234	12,820	12,846	10,981	11,697	11,836	12,556	12,219	13,201	11,862	10,727	9,353	10,628
Other Europe	12,870	15,765	18,556	20,921	23,120	27,835	33,247	26,025	29,629	38,135	38,188	39,716	39,516	31,865	27,330	27,260	29,042
Norway	1,004	1,281	1,212	1,326	1,293	1,718	1,761	1,459	1,523	1,631	1,631	1,682	1,677	1,418	1,274	1,373	1,404
Russia	1,944	2,607	3,876	4,713	5,648	7,671	9,196	5,845	7,358	9,170	9,486	10,333	9,651	4,457	4,326	4,757	4,651
Switzerland	9,223	10,863	12,312	13,603	14,987	17,095	20,822	17,940	19,410	25,757	25,465	26,084	26,485	24,783	20,343	19,379	21,244
Turkey	379	584	696	788	598	577	549	356	745	913	990	1,031	1,033	1,011	1,085	1,345	1,274
Ukraine	319	430	460	491	594	774	919	424	593	663	615	586	671	196	302	407	469
Middle East	5,227	5,271	5,621	5,715	6,119	7,133	7,702	8,236	8,393	8,621	10,280	9,469	10,152	9,043	8,946	9,542	10,335
Bahrain	18	19	21	28	37	48	61	49	56	65	69	73	76	63	72	74	75
Iran	243	265	380	328	316	375	382	685	632	597	476	336	404	337	395	446	318
Israel	4,832	4,832	5,031	5,143	5,564	6,460	6,964	7,220	7,372	7,590	9,330	8,644	9,267	8,340	8,154	8,688	9,583
Jordan	26	24	28	28	35	41	51	53	50	44	49	52	56	30	19	16	15
Kuwait	70	88	118	132	97	130	156	152	193	221	228	223	198	112	126	139	161
Qatar	5	5	*	5	7	10	8	8	10	14	17	17	18	28	26	29	32
Saudi Arabia	20	22	26	30	34	36	41	40	48	56	69	86	95	91	92	90	92
United Arab Emirates	13	15	17	22	29	33	39	29	32	34	41	39	39	42	62	61	59
Africa	1,070	1,347	1,636	1,926	2,063	2,149	2,246	2,259	2,622	2,942	3,526	3,573	3,849	3,345	3,344	3,219	3,345
Cameroon	*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Egypt	48	39	51	60	66	82	103	114	136	72	470	113	51	53	70	98	129
Kenya	15	19	24	28	27	40	46	47	47	51	72	74	46	37	39	37	39
Morocco	371	448	532	697	741	680	629	683	765	728	671	700	739	618	652	728	737
Nigeria	252	277	334	440	591	692	864	811	1,018	1,423	1,607	2,018	2,324	2,023	1,916	1,716	1,849
Senegal	*	*	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3
South Africa	379	557	687	690	626	641	582	583	624	638	676	639	657	585	636	606	559
Tunisia	5	6	7	8	10	14	21	20	28	27	27	25	27	25	26	29	27
Zimbabwe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asia	225,898	266,337	307,977	322,810	351,723	383,477	400,236	366,886	453,227	490,818	502,423	525,341	567,321	569,433	577,536	633,918	684,357
Bangladesh	137	135	131	129	127	120	131	158	176	174	176	192	228	283	427	370	385
China	48,310	61,909	71,714	82,829	99,401	111,364	132,855	130,017	157,805	186,549	210,508	237,627	262,826	280,684	288,048	322,975	364,229
India	2,480	2,882	2,985	3,653	4,051	4,743	4,257	4,390	4,838	4,327	3,955	4,200	3,869	3,891	3,698	3,992	4,157
Indonesia	1,047	1,317	1,310	1,135	1,746	2,665	3,035	2,894	2,725	2,826	3,035	3,868	3,354	3,239	3,331	3,256	2,524
Japan	95,171	110,672	122,184	116,685	113,142	117,878	119,311	103,820	124,797	120,759	103,279	84,199	81,303	75,802	81,444	71,250	74,084

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Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Malaysia	7,571	8,822	10,074	9,217	9,833	11,284	10,777	7,587	10,118	11,799	13,481	14,177	14,874	13,390	13,283	14,322	15,492
Pakistan	195	263	373	445	157	179	204	168	200	251	258	259	278	276	280	307	286
Philippines	2,423	1,955	2,300	2,466	2,912	4,329	2,942	3,381	3,089	3,613	4,204	2,583	2,588	2,601	2,421	2,480	2,617
Singapore	7,401	7,339	9,182	10,703	12,016	11,724	11,507	10,397	16,507	15,303	15,132	15,499	15,786	15,433	12,921	19,998	20,776
South Korea	30,709	34,143	45,730	49,950	55,765	63,091	55,783	51,105	67,505	75,119	75,392	82,977	85,086	81,421	76,664	87,653	91,521
Sri Lanka	22	22	27	33	9	23	22	21	17	18	19	22	21	20	20	22	21
Taiwan	26,342	32,057	36,850	40,036	46,586	48,835	51,571	45,252	55,600	60,492	62,864	67,529	77,895	75,783	76,754	85,029	85,287
Thailand	3,879	4,582	4,851	5,222	5,600	6,737	7,232	7,017	8,821	7,864	7,138	7,438	7,518	6,175	6,052	5,832	5,924
Vietnam	212	240	266	306	376	505	607	678	1,029	1,723	2,982	4,772	11,695	10,433	12,191	16,432	17,054
Oceania	1,667	2,266	2,485	2,796	3,011	3,551	3,528	3,013	3,720	4,728	5,053	4,652	3,977	4,532	4,534	5,240	5,194
Australia	1,548	2,098	2,277	2,561	2,791	3,205	3,199	2,701	3,317	4,309	4,628	4,251	3,537	4,156	4,171	4,814	4,787
New Zealand	119	168	207	235	220	346	329	312	403	419	425	401	440	376	363	427	406

EU = European Union.

* = amount < \$500,000.

Note(s):

Value added is the amount contributed by a country, firm, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. Detail may not add to total because of rounding or minor discrepancies. World total does not include all countries and economies due to limitations in data availability. See Table S6-1 for a full list of countries and economies in each region.

Source(s):

IHS Markit, special tabulations (2019) of Comparative Industry Service.