

Table SKTI-10

## Value added of computer, electronic, and optical products industry, by region, country, or economy: 2002–19

(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	2019
World	542,766	620,698	694,914	726,171	781,020	844,390	870,614	787,935	909,898	967,122	973,445	1,007,788	1,066,306	1,057,710	1,074,808	1,175,421	1,283,449	1,255,021
North America	197,674	216,226	223,055	234,423	249,092	254,226	256,648	243,111	262,113	260,000	263,797	266,499	275,741	292,357	291,607	304,636	329,873	333,865
Canada	4,003	4,968	5,778	6,506	6,872	7,317	7,086	6,716	7,725	7,691	6,728	5,895	5,646	4,925	4,709	5,036	4,649	4,371
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	17,968	16,743	17,650	18,225	19,369
United States	174,143	194,735	202,777	212,528	225,567	230,117	234,126	225,514	242,090	239,790	243,389	246,781	253,405	269,464	270,155	281,950	306,999	310,124
Central and South America	5,242	4,335	6,035	6,996	8,929	9,944	12,339	9,815	12,998	14,249	13,914	14,558	13,077	9,444	8,675	11,057	9,462	8,556
Argentina	100	158	239	314	364	449	535	491	646	710	685	651	529	490	504	597	505	450
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	6,976	9,165	7,549	6,950
Chile	26	27	29	28	27	29	25	28	35	43	51	58	99	340	305	277	311	219
Colombia	103	99	128	114	124	159	132	151	168	190	195	326	281	263	153	178	180	170
Peru	20	12	14	15	28	36	49	38	45	43	64	71	67	57	52	52	53	52
Other Central and South America	478	472	533	613	669	848	1,056	1,231	1,025	1,012	1,384	1,247	1,131	1,268	685	788	863	715
Europe	108,492	127,570	151,633	155,402	164,372	188,490	193,642	153,165	162,708	180,726	166,206	173,880	178,513	153,629	153,140	156,544	166,613	151,855
EU	80,619	97,179	114,370	116,667	123,289	141,472	140,252	109,912	115,144	123,273	108,978	115,134	118,558	104,869	107,578	110,839	115,609	101,320
France	14,778	16,273	17,880	16,540	16,566	18,050	18,001	15,026	15,177	15,378	14,122	14,731	14,757	12,751	13,086	13,743	14,801	13,455
Germany	25,086	31,570	37,819	37,842	39,725	49,903	47,858	34,954	39,688	44,894	40,585	43,025	45,208	42,374	44,539	45,695	45,800	39,349
Italy	7,349	8,578	9,894	10,122	10,445	11,822	12,025	10,223	10,720	11,870	10,728	10,552	10,625	9,224	8,926	9,361	9,894	8,592
Spain	2,385	2,730	2,762	2,892	2,934	3,587	3,959	3,342	2,820	2,891	2,512	2,463	2,160	1,731	1,737	1,845	2,102	1,887
Other EU	31,021	38,028	46,014	49,271	53,618	58,110	58,410	46,366	46,739	48,240	41,032	44,363	45,808	38,789	39,291	40,195	43,012	38,037
Non-EU	27,872	30,391	37,263	38,735	41,082	47,018	53,390	43,253	47,564	57,453	57,228	58,746	59,954	48,760	45,562	45,704	51,004	50,535
United Kingdom	14,360	13,746	17,754	16,607	16,937	18,148	19,255	16,589	17,593	18,802	17,854	17,979	18,884	18,317	16,914	16,620	19,447	17,968
Russia	1,944	2,607	3,876	4,713	5,648	7,671	9,196	5,845	7,358	9,170	9,852	10,467	9,776	4,338	4,147	4,706	4,845	5,204
Switzerland	9,508	11,196	12,611	14,051	15,452	17,601	21,216	18,239	19,726	26,273	26,074	26,844	27,846	23,365	21,708	21,165	23,324	23,712
Other non-EU	2,061	2,842	3,022	3,364	3,045	3,598	3,724	2,579	2,886	3,208	3,449	3,456	3,449	2,739	2,793	3,213	3,387	3,651
Middle East	4,795	5,066	5,242	5,458	5,900	6,970	7,363	8,181	8,524	9,045	10,704	10,092	10,847	9,570	9,679	10,793	11,569	13,014
Iran	293	331	471	410	401	467	486	861	790	1,159	614	528	693	667	783	884	760	725
Israel	4,338	4,549	4,547	4,787	5,238	6,176	6,492	6,966	7,318	7,408	9,565	9,042	9,634	8,495	8,418	9,369	10,264	11,757
Saudi Arabia	20	22	26	30	34	36	41	40	48	56	69	86	95	91	85	107	115	101
United Arab Emirates	23	26	30	37	50	57	67	49	54	63	69	64	59	62	68	74	64	67
Other Middle East	120	138	168	194	177	233	278	265	314	359	387	371	367	255	324	360	367	364
Africa	829	1,083	1,318	1,504	1,493	1,482	1,408	1,470	1,629	1,577	1,954	1,606	1,586	1,394	1,493	1,628	1,687	1,745
Egypt	48	39	51	60	66	82	103	114	136	72	470	113	51	147	190	283	347	385
Nigeria	2	2	2	3	3	4	4	4	5	8	8	9	10	8	6	5	7	12
South Africa	379	557	687	690	626	641	582	583	624	638	676	639	657	585	636	607	545	513
Other Africa	401	485	577	751	798	756	719	769	864	859	799	845	868	653	661	733	788	835
Asia	223,876	263,909	304,933	319,315	347,923	379,462	394,940	368,883	457,960	496,598	511,758	536,330	582,298	586,512	605,738	686,309	759,766	742,192

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(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	2019
China	48,916	62,372	72,135	83,249	99,773	111,481	132,967	130,115	157,898	186,633	210,581	237,686	262,882	279,664	286,243	319,641	364,788	373,195
India	2,480	2,882	2,985	3,653	4,051	4,743	4,257	4,390	4,838	4,326	3,955	4,200	3,869	4,481	4,791	5,500	6,523	6,490
Indonesia	1,047	1,317	1,310	1,135	1,746	2,665	3,035	2,894	2,725	2,828	3,034	3,865	3,280	4,680	4,812	4,743	3,733	3,407
Japan	95,171	110,672	122,184	116,685	113,142	117,878	119,312	103,820	124,797	120,759	103,279	84,199	81,303	75,974	80,840	78,501	77,647	76,800
Malaysia	7,571	8,822	10,074	9,217	9,833	11,284	10,777	7,587	10,118	11,800	13,482	14,178	14,874	13,390	13,784	14,177	15,196	15,641
Philippines	2,423	1,955	2,300	2,466	2,912	4,329	2,942	3,381	3,089	3,614	4,209	2,502	2,524	2,397	3,273	3,407	3,690	3,145
Singapore	7,401	7,339	9,182	10,704	12,016	11,725	11,508	10,398	16,508	15,304	15,132	15,499	15,787	15,434	12,921	19,999	31,646	31,800
South Korea	28,708	31,924	42,978	46,828	52,442	59,518	50,943	53,639	72,951	81,802	83,463	91,433	95,365	90,060	93,925	121,739	134,814	111,575
Taiwan	25,716	31,387	36,140	39,245	45,738	48,277	51,004	44,618	54,795	59,504	63,109	69,327	81,882	81,002	83,282	91,902	91,969	88,970
Thailand	3,879	4,582	4,851	5,222	5,600	6,737	7,232	7,017	8,821	7,864	8,101	8,221	8,339	8,453	8,512	8,611	9,078	8,500
Vietnam	212	240	266	306	376	505	607	678	1,029	1,723	2,982	4,772	11,695	10,433	12,677	17,435	20,088	22,153
Other Asia	352	417	528	605	292	320	356	345	391	441	431	448	498	543	678	654	594	516
Oceania	1,859	2,508	2,698	3,073	3,310	3,815	4,273	3,311	3,966	4,927	5,112	4,824	4,245	4,804	4,476	4,455	4,479	3,794
Australia	1,693	2,265	2,399	2,733	2,863	3,260	3,739	2,801	3,362	4,297	4,508	4,260	3,548	4,148	3,778	3,922	3,865	3,250
New Zealand	166	243	299	340	447	555	534	510	604	630	604	564	697	656	698	533	614	544

EU = European Union.

**Note(s):**

*Value added* is the amount contributed by a country, an industry, 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. The world total and regional totals do not include all countries and economies due to limitations in data availability. See Table SKTI-4 for a full list of countries and economies in each region for which data are available. China includes Hong Kong. The EU total excludes the United Kingdom (UK) to reflect the new EU country composition following the UK's withdrawal on 1 February 2020. In order to maintain consistency over time, the EU aggregate excludes the UK for the entire time series.

**Source(s):**

U.S. Bureau of Economic Analysis, Value Added by Industry, accessed 5 October 2021; IHS Markit, special tabulations (2021) of the Comparative Industry Service.

*Science and Engineering Indicators*