

The Yearbook of World

# ELECTRONICS DATA

Vol. 2  
2011

Americas, Japan,  
Asia Pacific

Components  
Computers  
Consumer  
Control and Instrumentation  
Medication and Industrial  
Office Equipment  
Radio Communications  
Telecommunications

## **Yearbook of World Electronics Data Volume 2 2011 – An Overview of Electronics Production & Markets in the Americas, Japan & the Asia Pacific**

### **Introduction**

This report is part of RER's emarketforecasts.com database which brings together market and production data on 53 countries globally. In addition to published reports, including the industry benchmark series the Yearbook of World Electronics Data, information can be provided on individual countries or tailored to meet customers' specific requirements. The database is also unique in providing historical data back to 1995 and for selected countries to 1985.

### **Yearbook of World Electronics Data - Volume 2 Americas, Japan, Asia Pacific**

The recovery in the global electronics industry from the 2008/2009 financial crisis and global downturn began in the second half of 2009 and gained momentum in the first half of 2010. Component shortages had a negative impact on growth although the situation eased towards the end of the year.

Growth in the electronics industry eased in the final months of 2010 and in 2011 demand for many products will be influenced by reduced government spending and weakening consumer confidence in particular in the more mature markets of Western Europe and the US. The emerging markets will show stronger growth boosted by increased consumer spending although this will be dampened by the expected reduction in exports.

The devastating and tragic earthquake and tsunami which hit Japan in March 2011 will have a negative impact, not only domestically but also globally however the full implications are not expected to be as bad as first feared. Despite the scale of the disaster and the initial problems of nuclear contamination and power shortages Japanese companies have made a remarkable recovery with most facilities back on-line by May with production expected to be ramped-up to pre-quake levels by the end of the summer/early autumn. Although significant progress has been made concerns still remain with the prospects of certain component shortages extending through to the end of the year.

To take advantage of the opportunities within the global electronics industry will require a clear understanding of the current structure of the global electronics industry, how it has developed on a country, regional and global level.

Published since 1983 the Volume 2 of the Yearbook of World Electronics Data provides:

- A single source solution allowing you to track the electronics industry in 16 countries including the USA, Japan and Asia Pacific (excluding China).
- 12 major product groups.
- Market and production forecasts.
- CD-option allows you to manipulate the data quickly and easily: produce your own subsets or summaries of the data, create your own forecasts or cut and paste the data into your own in-house reports and presentations.

## Who will benefit

The Yearbook is essential research providing key data for all areas of the electronics industry including:

- Distributors and manufacturers of electronic components and materials.
- Suppliers of electronic production equipment.
- OEMs.
- EMS Providers.
- Government, including investment organizations.
- Financial and industry analysts.
- Academic institutes & universities tracking developments in the electronics industry.

## The Yearbook of World Electronics Data

The Yearbook of World Electronics Data series presents market and production statistics for the GLOBAL electronics industry. Available in four published volumes covering 53 countries and 12 major product groups, the yearbook is used in the formulation of business and market planning, in tracking trends based on a clear understanding on how the industry has developed historically and to provide a basis for medium and long-term forecasting.

### **53 country coverage, 12 major product groups**

... comparable **country by country** and **product by product**.

## **Methodology**

The Yearbooks highlight market trends and opportunities and offer corroborative evidence for individual research. Each new edition is fully revised and updated. Trade statistics are analysed in detail, with over 500 separate categories being employed. Production statistics are collected from Government and Manufacturer's Association sources where these are available. Extensive use is also made of research reports, company reports, news items and work by other consultants to supplement and cross check the official and semi-official sources.

Markets are forecast in real terms for the next five years, with production forecast for the next two years, using constant exchange rates and excluding inflation. These are based on our extensive knowledge of the historical performance of each product, the general economic outlook and the major growth influencing factors.

## **2011 Series**

### **Volume 1 2011 West Europe**

Synopsis: Economic Overview; Electronics Market Overview; Imports 2008-2009; Exports 2008-2009; Production Data 2008-2011; Market Data 2008-2014

16 Country Coverage

Austria; Belgium; Denmark; Finland; France; Germany; Greece; Ireland; Italy; Netherlands; Norway; Portugal; Spain; Sweden; Switzerland; UK

Publication Data: February 2011

### **Volume 2 2011 America, Japan, Asia Pacific**

Synopsis: Economic Overview; Electronics Market Overview; Imports 2008-2009; Exports 2008-2009; Production Data 2008-2011; Market Data 2008-2014

16 Country Coverage

Australia; Brazil; Canada; Hong Kong; India; Indonesia; Israel; Japan; Malaysia; Philippines; Singapore; South Africa; South Korea; Taiwan Thailand; USA

Publication Data: June 2011

### **Volume 3 2010/2011 Emerging Markets**

Synopsis: Economic Overview; Electronics Market Overview; Imports 2007-2008; Exports 2007-2008; Production Data 2007-2010; Market Data 2007-2013

9 Country Coverage

China; Egypt; Mexico; New Zealand; Puerto Rico; Saudi Arabia; Turkey; Venezuela; Vietnam

Publication Data: August 2010

### **Volume 4 2011/2012 East Europe**

Synopsis: Economic Overview; Electronics Market Overview; Imports 2008-2009; Exports 2008-2009; Production Data 2008-2011; Market Data 2008-2014

53 Country World Summary covering production data 2008-2011 and market data for 2008-2014

12 Country Coverage

Bulgaria; Croatia; Czech Republic; Estonia; Hungary; Lithuania; Poland; Romania; Russia; Slovakia; Slovenia; Ukraine

Publication Data: August 2011

For each country production and market data is supplied for the following product groups:

- Computers
- Consumer – Video; Audio; Personal
- Control & Instrumentation
- Medical & Industrial
- Office Equipment
- Radio Communications
- Telecommunications
- Components – Passive Components; Semiconductors; Other Components



### **Custom Research**

To meet your specific research requirements and to ensure you maximize your research budget Reed Electronics Research can provide individual country reports or customized product data through its emarketforecasts research service. Reports can be provided on any of the 53 countries covered in the Yearbook database with the flexibility to provide regional reports outside of the published titles.

### **Historical Data**

The ability to have access to data over an extended time line is increasingly important in looking at how the industry has developed and to input into various forecasting models. To meet this demand we can provide historical data in spreadsheet format for all 53 countries covered in the Yearbook database.

Data for the majority of countries covered in Volume 1 & 2 dates back to 1985 while for the Volumes 3 and 4 we provide data back to 1995.

In addition to the full database we also provide a global summary for the 53 countries back to 1995. The data is formatted to allow the user to analyze the data using pivot tables.

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## SAMPLE DATA

Over the following pages we provide sample data from the 2010 edition of the report. This includes summary data for both production and markets, and a complete sample country.

## CONSOLIDATED SUMMARY OF PRODUCTION 2007

Table 2.5

Country	\$M EDP	\$M Office Equip	\$M Control & Instr	\$M Medical & Industrial	\$M Radio Comms & Radar*	\$M Telecomm- unications	\$M Consumer	\$M Compo- nents	\$M TOTAL
Australia	1104	63	900	264	1017	833	121	518	4820
Brazil	16138	260	1399	300	5500	900	2921	2748	30166
Canada	3083	145	2056	1290	3738	2045	106	588	13050
Hong Kong	353	96	58	196	201	224	850	932	2909
India	3647	121	1389	471	3382	1280	3551	1911	15752
Indonesia	2100	135	140	320	610	195	2646	3629	9775
Israel	1225	28	675	1470	1075	1750	51	2249	8523
Japan	30340	1324	8455	6469	28514	5569	21545	85314	187530
Malaysia	19942	232	1681	290	4348	1449	4804	24949	57696
Philippines	5760	93	90	62	610	60	342	7012	14029
Singapore	15828	199	993	901	3642	533	781	30251	53128
South Africa	311	8	141	113	233	453	196	212	1669
South Korea	16800	285	425	1725	28970	1008	4357	48084	101654
Taiwan	4255	14	274	6599	6383	729	2803	28217	49274
Thailand	13785	62	292	154	923	1108	4127	9005	29456
USA	56317	3290	39342	27225	67683	19843	3227	61834	278761
<b>TOTAL</b>	<b>190988</b>	<b>6355</b>	<b>58311</b>	<b>47847</b>	<b>156830</b>	<b>37980</b>	<b>52428</b>	<b>307453</b>	<b>858192</b>

## CONSOLIDATED SUMMARY OF MARKETS 2007

Table 2.18

Country	\$M EDP	\$M Office Equip	\$M Control & Instr	\$M Medical & Industrial	\$M Radio Comms & Radar*	\$M Telecomm- unications	\$M Consumer	\$M Compo- nents	\$M TOTAL
Australia	7225	223	1978	775	4043	1609	3577	1941	21369
Brazil	18366	287	2792	842	3771	1281	3622	8681	39642
Canada	11416	387	3364	1697	4750	2746	5136	4264	33760
Hong Kong	4506	78	268	180	895	279	855	1372	8433
India	7612	131	2088	719	7523	1858	4324	3746	28002
Indonesia	932	58	344	214	1483	319	1136	2184	6670
Israel	2441	64	555	979	1196	230	526	1837	7828
Japan	33718	1392	4346	4041	23081	6562	11375	61638	146154
Malaysia	2440	68	1115	330	1309	316	739	19640	25957
Philippines	991	33	316	85	690	479	424	3225	6243
Singapore	8648	230	1888	234	2185	505	1340	11473	26504
South Africa	3004	175	765	252	2035	1260	736	733	8959
South Korea	6094	174	4564	2601	5568	1687	2543	24877	48108
Taiwan	4130	63	1830	454	1796	377	699	15032	24380
Thailand	4370	100	1651	522	2626	790	1192	7259	18510
USA	108831	3564	32863	27639	96342	26671	37073	67141	400124
<b>TOTAL</b>	<b>224725</b>	<b>7027</b>	<b>60726</b>	<b>41564</b>	<b>159293</b>	<b>46969</b>	<b>75298</b>	<b>235041</b>	<b>850643</b>

Notes: 2007 are current figures at current exchange rates  
 \*inc mobiles. Base year 2008

**Table 2.10 Summary of Medical & Industrial Production**

Medical	\$M 2007	\$M 2008	\$M 2009	\$M 2010
Australia	142	142	132	135
Brazil	190	200	196	206
Canada	813	841	786	820
Hong Kong	6	6	6	6
India	278	289	281	309
Indonesia	175	180	184	189
Israel	1200	1475	1549	1828
Japan	4873	5125	5103	5614
Malaysia	145	225	234	269
Philippines	20	20	20	21
Singapore	490	391	364	393
South Africa	30	28	29	32
South Korea	525	620	632	683
Taiwan	94	108	103	111
Thailand	62	63	63	66
USA	21943	22164	22607	23240
<b>TOTAL</b>	<b>30985</b>	<b>31876</b>	<b>32288</b>	<b>33922</b>

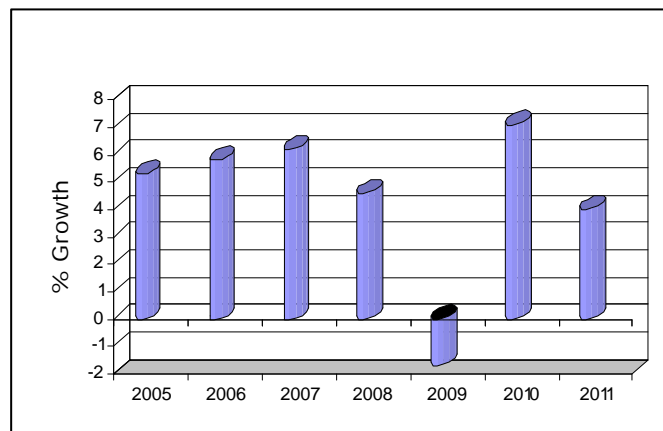
**Table 2.27 Summary of Consumer Markets**

Video Equipment	\$M 2007	\$M 2008	\$M 2009	\$M 2010	\$M 2011	\$M 2012	\$M 2013
Australia	2602	2742	2596	2674	2754	2809	2865
Brazil	2563	2738	2793	2904	3050	3202	3330
Canada	3325	3658	3399	3501	3606	3678	3715
Hong Kong	467	490	498	512	528	544	555
India	3290	3352	3250	3510	3790	4094	4380
Indonesia	774	819	852	894	939	977	1016
Israel	374	382	384	395	407	415	424
Japan	7029	8317	9938	10236	10492	10702	10916
Malaysia	363	392	375	388	401	413	424
Philippines	235	247	254	265	275	283	292
Singapore	707	767	766	789	813	837	858
South Africa	451	411	415	436	453	467	481
South Korea	1560	1575	1607	1655	1704	1747	1791
Taiwan	374	400	387	396	404	409	414
Thailand	916	940	931	959	998	1038	1058
USA	27482	27553	26789	27593	28421	29217	29947
<b>TOTAL</b>	<b>52512</b>	<b>54783</b>	<b>55233</b>	<b>57108</b>	<b>59036</b>	<b>60832</b>	<b>62466</b>

## 3.9 Malaysia

### 3.9.1 Economic Outlook

- On the back of strong growth in the first months of 2010 the outlook for the Malaysian economy has been revised-up with GDP growth now expected to reach 7.1% in 2010. The strong growth however, partly reflects the contraction in 2009 and will ease in 2011. Private consumption and investment will remain the main drivers of growth during the period.
- Malaysian exports will be supported by the improvement in the global economy and in particular demand from China, one of the country's largest trading partners.
- Price pressures will remain subdued in 2010 with consumer price inflation averaging 1.7%. Inflationary pressures will build in 2011 when strengthening domestic demand will push consumer price inflation to 2.6%.



Malaysia GDP Growth

### Malaysia's Leading Economic Indicators

% Increase	Actual			Forecast			
	2005	2006	2007	2008	2009	2010	2011
Growth of GDP	5.3	5.8	6.2	4.6	-1.7	7.1	4.0

Source: EIU, May 2010

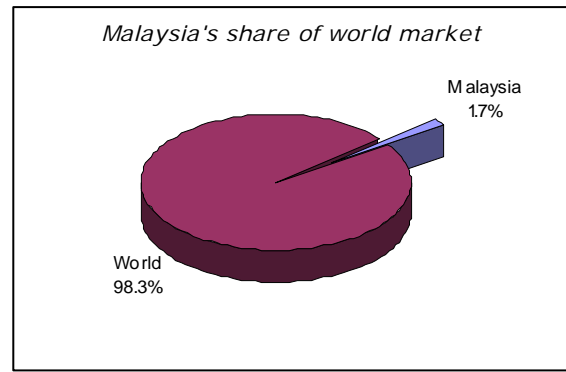
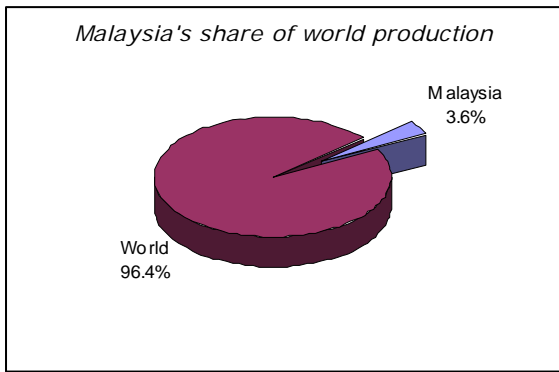
### 3.9.2 Malaysia in a Global Context

#### Market & Production Rankings

The following table ranks Malaysia's position within the world in terms of electronics production and market for 2008.

Sector	Production	Market
EDP	4 (4.6%)	27 (0.6%)
Office Equipment	9 (1.9%)	34 (0.5%)
Control & Instrumentation	12 (1.6%)	22 (1.1%)
Medical & Industrial	21 (0.5%)	31 (0.5%)
Radio Communications*	14 (1.3%)	28 (0.5%)
Telecommunications	12 (1.8%)	37 (0.4%)
Consumer	5 (3.3%)	31 (0.5%)
Components	7 (5.7%)	6 (4.2%)
<b>TOTAL</b>	<b>5 (3.6%)</b>	<b>14 (1.7%)</b>

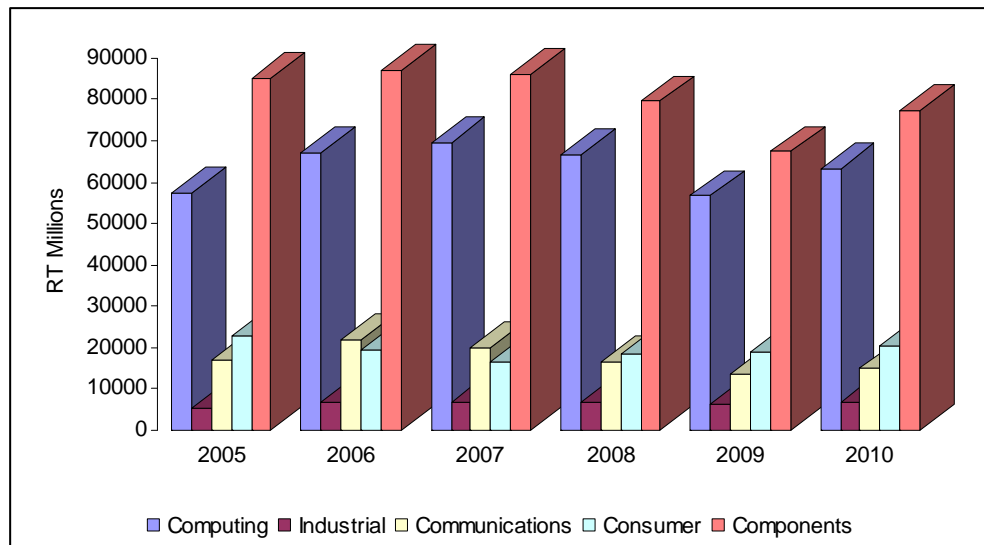
\* Includes mobile phones



### 3.9.3 Electronics Industry Structure

Output of the Malaysian electronics industry fell by 5.5% in 2008 this following a more modest decline of 1.6% in 2007. The electronics industry is Malaysia's leading industrial sector accounting for 29.3% of manufacturing output, 55.9% of exports and 29.8% of employment (296,870 people) in 2008.

Electronic components accounted for 42% of electronics output in 2008. Malaysia is one of the world's leading centres for semiconductor packaging and assembly, output for the key semiconductor sector however has shown double-digit falls in both 2008 and 2009 in response to the decline in the global semiconductor market. Output is forecast to re-bound in 2010 as the semiconductor market recovers with growth of 22%.



Although Malaysia focuses predominantly on assembly and test it has two major semiconductor foundries X-Fab Sarawak (in March 2006 1<sup>st</sup> Silicon announced it was merging with the German foundry X-Fab) and Silterra and three integrated device manufacturers SCG Industries (a subsidiary of the US company ON Semiconductor), the German group Infineon Technologies and MIMOS Semiconductor.

As a result of the global slowdown at the beginning of 2009 Intel announced it was closing a test and assembly plant in Malaysia. Production at the former Qimonda DRAM module plant has also ceased following the German company's insolvency.

### Summary of Malaysian Electronics Production

RT Millions	2005	2006	2007	2008	2009	2010
Computing	57280	67215	69600	66665	56699	63371
Industrial	5250	6825	6800	6850	6437	6991
Communications	17100	21780	20000	16500	13560	14910
Consumer	22951	19467	16575	18552	18877	20428
Components	85083	86980	86075	79510	67367	77336
Total	187664	202267	199050	188077	162939	183036

*Notes: Computing includes office equipment; Industrial combines control and instrumentation and medical and industrial; and communications combines fixed and wireless communications (inc. defence). Due to computer rounding the summary figures above may differ slightly from the figures presented in the main tables.*

Recent investments in the country have included a new LED wafer processing line by Osram, a subsidiary of the German Siemens Group. The new line is in addition to the company's existing back-end facility in Penang. In September 2007, the Japanese company Fuji Electric Holdings announced it planned to build a new plant in Malaysia for the production of power semiconductors while in January 2008 Renesas Technology announced it was expanding its back-end production capabilities in Malaysia from 37,000 sq m to 43,000 sq m and which will result in production of analog and discrete semiconductors in the country doubling from 600 million units a month to 1.2 billion. The new production facilities came on line in August 2008. Renesas has also established an analog and discrete semiconductor design company in the country.

In March 2009, the Japanese company Panasonic announced as part of a restructuring of its Japanese operations the company would transfer part of its production to its existing facilities in China and Malaysia.

In February 2010, it was reported that the German semiconductor company Infineon planned to invest RM 180 million to upgrade its back-end manufacturing facilities in Malaysia.

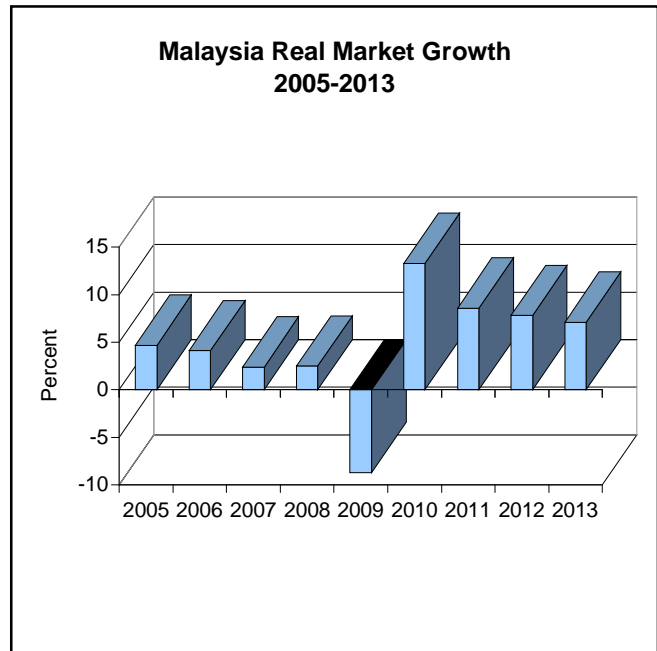
Malaysia has also benefited from the boom in solar power. In March 2008, SunPower Corp announced it would develop its next solar cell fabrication plant in Malaysia while Q-Cells plans to increase capacity at its Malaysian plant to 520MWp by the end of 2009.

In November 2009, First Solar announced plans to invest US\$365 million to add two production plants, with four manufacturing lines each, in Malaysia. This is expected to increase the company's annual production capacity by 424 MW. The new production lines will start production in the first half of 2011.

In March 2010, leading EMS provider Flextronics announced it had allotted one million square feet of space at its existing facility in the Port of Tanjung Pelepas, Malaysia for the manufacture of clean technology. The move will strengthen the company's position as a leading manufacturer of solar modules and complements the company's clean tech strategy that includes providing services to global OEMs of inverters, wind power, smart grid, smart metering and energy-efficient lightning solutions. The facility aims to reach an annual production volume of 1GW of solar modules in two years. Flextronics has also announced that it has dedicated 200 MW of solar production at the site to the German company Q-Cells with production starting in March 2010.

Consumer accounted for 9.9% of electronics output in 2008. During the year 5.7 million colour TVs were produced down from 6.0 million units a year earlier. Output is forecast to increase in 2009 and 2010 as CRT TV production is switched to LCD. According to reports Panasonic plans to double Malaysian production of LCD televisions to two million units in 2010 as part of a strategy to ramp up home electronics production abroad.

Production of computers and parts increased by 3.5% in 2007 and followed three years of double-digit growth, but declined by 4.1% in 2008 and a more substantial 15% in 2009. Leading multinational companies in the computer and computer peripherals sector include Dell, Samsung and BenQ as well as leading EMS providers including Inventec and Sanmina-SCI. Major local manufacturers include FTEC, MIMOS and Nascom which produce computers under their own brands for both the domestic and export market. In 2009 the Japanese company NEC announced it was closing its PC operations in the country as part of a broader move to scale down its overseas PC business.



Communications, both fixed and wireless, accounted for 8.8% of production in 2008 with both sectors showing year on year declines on the back of falling exports. Leading companies include Motorola, Flextronics, Sanyo, Panasonic, Pernec, Alcatel, KUB-Fujitsu, CSL Manufacturing and G-Tek. Products include switching equipment, transmission equipment, radio base stations, digital wireless transceivers, mobile phones and mobile VoIP phones.

Despite continued investment Malaysia is facing increasing competition for foreign investment, in particular for low end assembly. This is expected to intensify over the next few years as companies look increasingly for lower-cost solutions, in particular for volume products.

Leading foreign companies have started transferring more advanced manufacturing activities to the country including research and development. The country is also benefiting from a growing electronic manufacturing services sector with the leading EMS providers Celestica, Flextronics, Jabil Circuit, SCI-Sanmina and Plexus having facilities in the country.

### 3.9.4 List of Sources

Consensus Forecasts - Consensus Economics  
Country Report & Country Profile - EIU  
Financial Times  
OECD Economic Survey  
Telecom Statistics - International Telecommunications Union  
Malaysian Annual Statistics of External Trade - Department of Statistics  
Monthly Statistical Bulletin - Department of Statistics  
Monthly Industrial Statistics - Department of Statistics  
Quarterly Bulletin - Bank Negara Malaysia  
Reed Business Information  
United Nations Trade Statistics

### 3.9.5 MALAYSIA PRODUCTION

<b>ELECTRONIC DATA PROCESSING</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Computer & Peripherals	RtM	55000	48500	41332	46412
	\$M	15942	14521	11709	13148
Parts & Accessories	RtM	13800	17500	14768	16420
	\$M	4000	5240	4183	4652
<b>EDP Total</b>	RtM	68800	66000	56100	62832
	\$M	19942	19760	15892	17799

<b>OFFICE EQUIPMENT</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Photocopiers	RtM	565	215	220	224
	\$M	164	64	62	63
Other Office Equipment	RtM	235	450	378	315
	\$M	68	135	107	89
<b>Office Equipment Total</b>	RtM	800	665	599	539
	\$M	232	199	170	153

<b>CONTROL &amp; INSTRUMENTATION</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Control &amp; Instrumentation Total</b>	RtM	5800	5600	5152	5564
	\$M	1681	1677	1459	1576

<b>MEDICAL &amp; INDUSTRIAL</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>X-Ray &amp; Medical Equip Total</b>	RtM	500	750	825	949
	\$M	145	225	234	269
<b>Industrial Equipment Total</b>	RtM	500	500	460	478
	\$M	145	150	130	136
<b>Medical &amp; Industrial Total</b>	RtM	1000	1250	1285	1427
	\$M	290	374	364	404

<b>COMMUNICATIONS &amp; RADAR</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Communications &amp; Radar Total</b>	RtM	15000	12000	9600	10752
	\$M	4348	3593	2720	3046

**MALAYSIA PRODUCTION (cont)**

<b>TELECOMMUNICATIONS</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Telecommunications Total</b>	RtM	5000	4500	3960	4158
	<b>\$M</b>	<b>1449</b>	<b>1347</b>	<b>1122</b>	<b>1178</b>
<b>CONSUMER</b>					
<b>Video Equipment</b>					
Colour Television	RtM	4000	5600	6391	7732
	<b>\$M</b>	<b>1159</b>	<b>1677</b>	<b>1810</b>	<b>2190</b>
	<i>No.th</i>	<i>6028</i>	<i>5732</i>	<i>6280</i>	<i>7293</i>
Video Recorders & DVD Players	RtM	1725	2000	1993	2105
	<b>\$M</b>	<b>500</b>	<b>599</b>	<b>565</b>	<b>596</b>
	<i>No.th</i>	<i>8150</i>	<i>8550</i>	<i>8264</i>	<i>8468</i>
Video & Digital Still Cameras	RtM	2010	2100	2093	2210
	<b>\$M</b>	<b>583</b>	<b>629</b>	<b>593</b>	<b>626</b>
	<i>No.th</i>	<i>4800</i>	<i>4900</i>	<i>5029</i>	<i>5472</i>
<b>Video Equipment Total</b>	RtM	7735	9700	10476	12047
	<b>\$M</b>	<b>2242</b>	<b>2904</b>	<b>2968</b>	<b>3413</b>
<b>Audio Equipment</b>					
Radios & Radio Combinations	RtM	6650	6875	6435	6334
	<b>\$M</b>	<b>1928</b>	<b>2058</b>	<b>1823</b>	<b>1794</b>
Compact Disc Players	RtM	295	100	96	96
	<b>\$M</b>	<b>86</b>	<b>30</b>	<b>27</b>	<b>27</b>
Other Audio Equipment	RtM	1600	1600	1616	1716
	<b>\$M</b>	<b>464</b>	<b>479</b>	<b>458</b>	<b>486</b>
<b>Audio Equipment Total</b>	RtM	8545	8575	8146	8146
	<b>\$M</b>	<b>2477</b>	<b>2567</b>	<b>2308</b>	<b>2308</b>
<b>Personal Consumer Equipment</b>					
Electronic Musical Instruments	RtM	60	65	61	57
	<b>\$M</b>	<b>17</b>	<b>19</b>	<b>17</b>	<b>16</b>
Electric/Electronic Watches	RtM	220	200	183	167
	<b>\$M</b>	<b>64</b>	<b>60</b>	<b>52</b>	<b>47</b>
Electric/Electronic Clocks	RtM	15	12	11	10
	<b>\$M</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>
<b>Personal Consumer Total</b>	RtM	295	277	255	234
	<b>\$M</b>	<b>86</b>	<b>83</b>	<b>72</b>	<b>66</b>
<b>Consumer Total</b>	RtM	16575	18552	18877	20428
	<b>\$M</b>	<b>4804</b>	<b>5554</b>	<b>5348</b>	<b>5787</b>

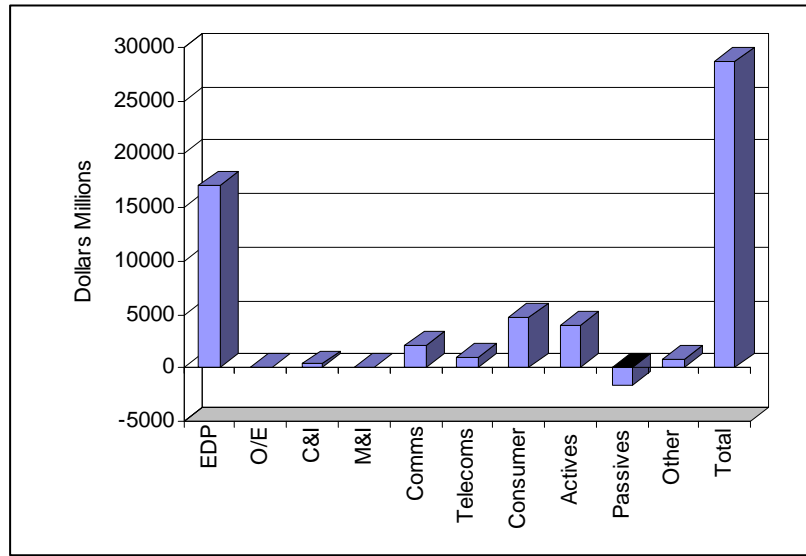
**MALAYSIA PRODUCTION (cont)**

<b>COMPONENTS</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Active Components</b>					
Colour Television Tubes	RtM	1800	1600	960	480
	\$M	<b>522</b>	<b>479</b>	<b>272</b>	<b>136</b>
Valves & Tubes Other	RtM	400	400	320	288
	\$M	<b>116</b>	<b>120</b>	<b>91</b>	<b>82</b>
Discrete Semiconductors	RtM	9200	9200	8464	10326
	\$M	<b>2667</b>	<b>2754</b>	<b>2398</b>	<b>2925</b>
ICs & Other Microcircuits	RtM	55000	49500	42075	51332
	\$M	<b>15942</b>	<b>14820</b>	<b>11919</b>	<b>14542</b>
<b>Active Components Total</b>	RtM	66400	60700	51819	62426
	\$M	<b>19246</b>	<b>18174</b>	<b>14680</b>	<b>17684</b>
<b>Passive Components</b>					
Capacitors	RtM	2100	2100	1684	1738
	\$M	<b>609</b>	<b>629</b>	<b>477</b>	<b>492</b>
Resistors	RtM	550	540	424	428
	\$M	<b>159</b>	<b>162</b>	<b>120</b>	<b>121</b>
Connectors	RtM	1200	1350	1114	1183
	\$M	<b>348</b>	<b>404</b>	<b>316</b>	<b>335</b>
Transformers Small & other Inductors	RtM	150	150	113	110
	\$M	<b>43</b>	<b>45</b>	<b>32</b>	<b>31</b>
Relays	RtM	165	160	125	127
	\$M	<b>48</b>	<b>48</b>	<b>36</b>	<b>36</b>
Switches	RtM	120	120	94	95
	\$M	<b>35</b>	<b>36</b>	<b>27</b>	<b>27</b>
Printed Circuit Boards	RtM	5000	4400	3502	3588
	\$M	<b>1449</b>	<b>1317</b>	<b>992</b>	<b>1016</b>
<b>Passive Components Total</b>	RtM	9285	8820	7056	7268
	\$M	<b>2691</b>	<b>2641</b>	<b>1999</b>	<b>2059</b>
<b>Other Components</b>					
Microphones	RtM	20	20	16	14
	\$M	<b>6</b>	<b>6</b>	<b>5</b>	<b>4</b>
Loudspeakers	RtM	775	770	653	586
	\$M	<b>225</b>	<b>231</b>	<b>185</b>	<b>166</b>
Amplifiers	RtM	195	200	154	126
	\$M	<b>57</b>	<b>60</b>	<b>44</b>	<b>36</b>
Aerials	RtM	400	400	324	277
	\$M	<b>116</b>	<b>120</b>	<b>92</b>	<b>79</b>
Unrecorded Media	RtM	4000	3800	3245	2934
	\$M	<b>1159</b>	<b>1138</b>	<b>919</b>	<b>831</b>
Accessories & Parts for Consumer Equipment	RtM	5000	4800	4099	3706
	\$M	<b>1449</b>	<b>1437</b>	<b>1161</b>	<b>1050</b>
<b>Other Components Total</b>	RtM	10390	9990	8492	7642
	\$M	<b>3012</b>	<b>2991</b>	<b>2406</b>	<b>2165</b>
<b>Components Total</b>	RtM	86075	79510	67367	77336
	\$M	<b>24949</b>	<b>23805</b>	<b>19084</b>	<b>21908</b>

**MALAYSIA PRODUCTION (cont)**

		2007	2008	2009	2010
<b>PRODUCTION-MALAYSIA TOTAL</b>	RtM	199050	188077	162939	183036
	\$M	57696	56310	46158	51852

Notes: 2007 and 2008 are current figures at current exchange rates. 2009 and 2010 are forecasts at 2009 constant values and exchange rates (i.e. inflation is not included). Base year 2008.



**Malaysia Trade Balance 2008**

### 3.9.6 MALAYSIA MARKETS

<b>ELECTRONIC DATA PROCESSING</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
Computer & Peripherals	RtM	5146	5413	5421	5949	6454	6987	7477	%
	\$M	1492	1621	1536	1685	1828	1979	2118	8
Parts & Accessories	RtM	3273	3442	3124	3108	3057	2999	2909	%
	\$M	949	1031	885	881	866	850	824	-2
<b>EDP Total</b>	RtM	8419	8855	8545	9058	9511	9986	10386	%
	\$M	2440	2651	2421	2566	2694	2829	2942	5

<b>OFFICE EQUIPMENT</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
Photocopiers	RtM	127	132	129	134	137	140	143	%
	\$M	37	40	37	38	39	40	40	2
Other Office Equipment	RtM	108	115	110	112	113	113	113	%
	\$M	31	34	31	32	32	32	32	1
<b>Office Equipment Total</b>	RtM	235	247	240	246	249	253	256	%
	\$M	68	74	68	70	71	72	72	2

<b>CONTROL &amp; INSTRUMENTAION</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>Control &amp; Instrumentation Total</b>	RtM	3847	4478	4299	4557	4785	5024	5225	%
	\$M	1115	1341	1218	1291	1355	1423	1480	5

<b>MEDICAL &amp; INDUSTRIAL</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>X-Ray &amp; Medical Equip Total</b>	RtM	629	654	674	714	757	795	834	%
	\$M	182	196	191	202	214	225	236	5
<b>Industrial Equipment Total</b>	RtM	508	520	520	546	573	602	632	%
	\$M	147	156	147	155	162	171	179	5
<b>Medical &amp; Industrial Total</b>	RtM	1137	1174	1194	1260	1330	1397	1466	%
	\$M	330	351	338	357	377	396	415	5

<b>COMMUNICATIONS &amp; RADAR</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>Communications &amp; Radar Total</b>	RtM	4516	4749	4654	4980	5229	5464	5710	%
	\$M	1309	1422	1318	1411	1481	1548	1618	5

<b>TELECOMMUNICATIONS</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>Telecommunications Total</b>	RtM	1090	1128	1083	1126	1160	1195	1231	%
	\$M	316	338	307	319	329	338	349	3

**MALAYSIA MARKETS (cont)**

<b>CONSUMER</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
									%
<b>Video Equipment</b>									
Colour Television	RtM	726	779	795	832	870	906	937	4
	<b>\$M</b>	<b>210</b>	<b>233</b>	<b>225</b>	<b>236</b>	<b>247</b>	<b>257</b>	<b>266</b>	
	<i>No.th</i>	1240	1320	1388	1496	1611	1727	1841	
Video Recorders & DVD Players	RtM	152	145	140	139	138	136	134	-1
	<b>\$M</b>	<b>44</b>	<b>43</b>	<b>40</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>38</b>	
	<i>No.th</i>	1113	1140	1137	1162	1187	1207	1221	
Video & Digital Still Cameras	RtM	374	385	386	397	408	417	424	2
	<b>\$M</b>	<b>108</b>	<b>115</b>	<b>109</b>	<b>112</b>	<b>116</b>	<b>118</b>	<b>120</b>	
	<i>No.th</i>	486	519	526	546	566	585	601	
<b>Video Equipment Total</b>	RtM	1252	1309	1322	1368	1416	1459	1495	3
	<b>\$M</b>	<b>363</b>	<b>392</b>	<b>375</b>	<b>388</b>	<b>401</b>	<b>413</b>	<b>424</b>	
<b>Audio Equipment</b>									
Radio & Radio Combinations	RtM	652	637	645	659	672	685	699	2
	<b>\$M</b>	<b>189</b>	<b>191</b>	<b>183</b>	<b>187</b>	<b>190</b>	<b>194</b>	<b>198</b>	
Compact Disc Players	RtM	28	22	21	21	20	20	19	-2
	<b>\$M</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>5</b>	
Other Audio Equipment	RtM	125	128	129	131	133	135	137	2
	<b>\$M</b>	<b>36</b>	<b>38</b>	<b>37</b>	<b>37</b>	<b>38</b>	<b>38</b>	<b>39</b>	
<b>Audio Equipment Total</b>	RtM	805	787	795	811	825	840	855	2
	<b>\$M</b>	<b>233</b>	<b>236</b>	<b>225</b>	<b>230</b>	<b>234</b>	<b>238</b>	<b>242</b>	
<b>Personal Consumer Equipment</b>									
Electronic Musical Instruments	RtM	35	38	34	31	28	25	23	-10
	<b>\$M</b>	<b>10</b>	<b>11</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	
Electric/Electronic Watches	RtM	426	445	452	468	483	498	510	3
	<b>\$M</b>	<b>123</b>	<b>133</b>	<b>128</b>	<b>133</b>	<b>137</b>	<b>141</b>	<b>145</b>	
Electric/Electronic Clocks	RtM	31	32	29	26	24	22	19	-9
	<b>\$M</b>	<b>9</b>	<b>10</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>6</b>	
<b>Personal Consumer Total</b>	RtM	492	515	515	525	535	544	553	2
	<b>\$M</b>	<b>143</b>	<b>154</b>	<b>146</b>	<b>149</b>	<b>151</b>	<b>154</b>	<b>157</b>	
<b>Consumer Total</b>	RtM	2549	2611	2632	2704	2776	2843	2903	2
	<b>\$M</b>	<b>739</b>	<b>782</b>	<b>746</b>	<b>766</b>	<b>787</b>	<b>805</b>	<b>822</b>	

**MALAYSIA MARKETS (cont)**

<b>COMPONENTS</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>Active Components</b>									%
Colour Television Tubes	RtM	662	376	188	103	67	44	33	-35
	\$M	192	113	53	29	19	12	9	
Valves & Tubes Other	RtM	400	390	371	359	352	345	338	-2
	\$M	116	117	105	102	100	98	96	
Discrete Semiconductors	RtM	4154	4277	3849	4311	4699	5122	5532	9
	\$M	1204	1281	1090	1221	1331	1451	1567	
ICs & Other Microcircuits	RtM	41291	42443	37350	45567	51035	56649	62314	14
	\$M	11968	12707	10581	12908	14458	16048	17653	
<b>Active Components Total</b>	RtM	46507	47486	41758	50340	56153	62160	68217	13
	\$M	13480	14217	11829	14261	15907	17609	19325	
<b>Passive Components</b>									
Capacitors	RtM	2955	2889	2630	2810	2973	3086	3171	5
	\$M	857	865	745	796	842	874	898	
Resistors	RtM	957	969	882	942	997	1035	1064	5
	\$M	277	290	250	267	282	293	301	
Connectors	RtM	1423	1469	1407	1582	1762	1925	2082	10
	\$M	412	440	399	448	499	545	590	
Transformers Small & other Inductors	RtM	504	516	451	462	469	467	461	1
	\$M	146	154	128	131	133	132	131	
Relays	RtM	156	178	157	162	167	167	167	2
	\$M	45	53	44	46	47	47	47	
Switches	RtM	158	150	137	146	154	160	165	5
	\$M	46	45	39	41	44	45	47	
Printed Circuit Boards	RtM	7876	7856	7241	7832	8391	8818	9176	6
	\$M	2283	2352	2051	2219	2377	2498	2599	
<b>Passive Components Total</b>	RtM	14029	14027	12905	13937	14913	15658	16285	6
	\$M	4066	4200	3656	3948	4225	4436	4613	
<b>Other Components</b>									
Microphones	RtM	40	40	36	37	38	38	38	2
	\$M	12	12	10	10	11	11	11	
Loudspeakers	RtM	468	444	404	415	427	434	441	2
	\$M	136	133	114	118	121	123	125	
Amplifiers	RtM	107	107	95	95	95	94	93	0
	\$M	31	32	27	27	27	27	26	
Aerials	RtM	345	345	314	323	332	338	343	2
	\$M	100	103	89	91	94	96	97	
Unrecorded Media	RtM	1232	1175	1055	1071	1086	1091	1094	1
	\$M	357	352	299	303	308	309	310	
Accessories & Parts for Consumer Equipment	RtM	5029	5216	4837	5070	5313	5514	5710	4
	\$M	1458	1562	1370	1436	1505	1562	1618	
<b>Other Components Total</b>	RtM	7221	7327	6741	7010	7291	7510	7720	3
	\$M	2093	2194	1910	1986	2065	2127	2187	
<b>Components Total</b>	RtM	67757	68840	61404	71288	78357	85328	92222	11
	\$M	19640	20611	17395	20195	22197	24172	26125	
		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>CAAGR</b>
<b>MARKET - MALAYSIA TOTAL</b>	RtM	89550	92082	84050	95218	103397	111490	119397	%
	\$M	25957	27569	23810	26974	29291	31584	33824	9

Notes: 2007 to 2008 are current figures at current exchange rates

2009 to 2013 are forecasts at 2009 constant values & exchange rates (i.e. Inflation is not included), Base Year 2008

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