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# The Worldwide OEM Electronics Assembly Market - 2018 Edition

**A Unique Database Providing Global Electronics Assembly Data for Nearly 380 OEM Companies**

## Database Highlights

■ **Product Segment Analysis, 2017**

- ◆ **Automotive**
- ◆ **Communications**
- ◆ **Computers/Peripherals**
- ◆ **Consumer Electronics**
- ◆ **Industrial**
- ◆ **Medical**
- ◆ **Aerospace/Military/Other Transportation**

■ **Company-Level Analysis, 2017**

- ◆ **COGS Assembly Revenue**
- ◆ **Electronics COGS Assembly Revenue**
- ◆ **Outsourced/In-House Assembly Revenue**
- ◆ **Assembly Revenue by 3 Regions**
- ◆ **Assembly Revenue by 48 Products**

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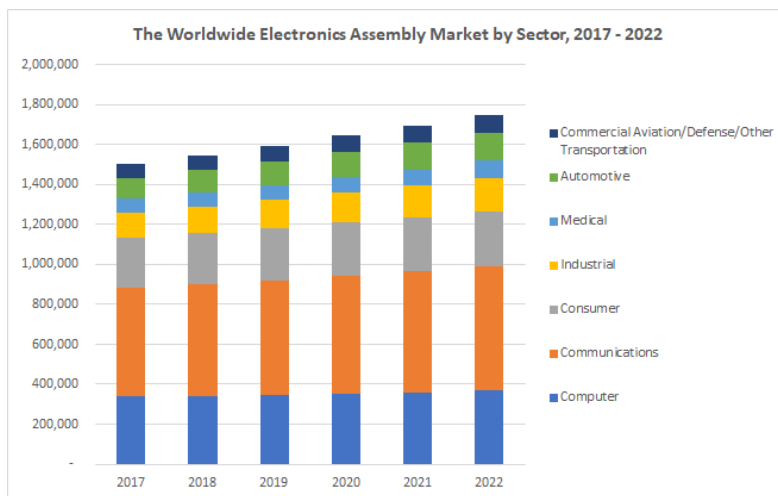
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# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Synopsis - 90 Page Word PP Discussion + 64 Excel Supporting Tables

The worldwide electronics assembly market is substantial in size, approximately \$1.5 trillion dollars in terms of cost of goods sold (COGS) as of 2017. The market is expanding rapidly but changing in composition both in terms of outsourcing partnerships and in-house manufacturing. Also, moves are being made annually with regard to the manufacturing country of origin based on total cost.



**New Venture Research (NVR)** has followed the electronics assembly industry for over 20 years with its research reports that focus on all aspects of this industry. **The Worldwide OEM Electronics Assembly Market - 2018 Edition** is a peerless database that analyzes the 2017 electronics assembly market on a worldwide basis. It is developed by studying nearly 380 leading OEM electronics companies in 48 different product categories and their manufacturing activities in 3 different geographic areas. Moreover, the report examines the electronics assembly market by outsourced subcontractor versus in-house assembly by the OEM company.

The report segments the worldwide electronics assembly value into seven unique markets.

- Automotive
- Communications
- Computers/Peripherals
- Consumer Electronics
- Industrial
- Medical
- Aerospace/Military/Other Transportation

The following production data is given for the leading OEMs within each product/market segment.

- COGS Assembly Revenue
- Electronics COGS Assembly Revenue
- Outsourced/In-Housed Assembly Revenue
- Assembly Revenue by 3 Regions
- Assembly Revenue by 48 Products

The leading OEMs for each segment are chosen not only for their size, but also for their leadership within their industry segment, growth potential, profitability, and inclination to outsource electronics assembly.

**The Worldwide OEM Electronics Assembly Market - 2018 Edition** will provide you with critical information you need on this significant market. The database/report is delivered by email as a single-user Excel file and sells for \$3,995. An extra single-user license is \$500 and a corporate license is \$1,500.

## About the Author

**Randall Sherman**, president of New Venture Research Corp., a California market research and business consulting firm focused on the EMS and OEM electronics manufacturing industries, serves as principal analyst for this database. Mr. Sherman has more than 20 years' experience in technology and business research. He began his career as a telecom network design engineer. He has held senior positions at various market research firms, including Creative Strategies and Frost and Sullivan. Mr. Sherman holds an MSEE from the University of Colorado and an MBA from the Edinburgh School of Business.

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Synopsis - 90 Word Power Point Discussion + 64 Excel Supporting Tables

### Worksheet 1: Automotive

- Automotive Engine Controls
- Automotive Instruments
- Automotive Safety
- Automotive Entertainment
- Total Automotive
- Automotive Summary

### Worksheet 2: Communications

- Mobile Phones
- Infrastructure
- Other Phones
- Enterprise LANs
- Wireless LANs
- DSL/Cable Modems
- PBX/Key Systems
- Carrier-Class
- Other Communications
- Total Communications Summary

### Worksheet 3: Computer/Peripherals

- Notebooks
- Desktops
- Tablets
- Servers
- Workstations
- ESS
- Monitors
- Printers
- E-Readers
- Other Computer
- Total Computer Summary

### Worksheet 4: Consumer Electronics

- Analog TV
- Digital TV
- MP3
- Other Audio

### Games

- Enterprise LANs
- Wireless LANs
- DSL/Cable
- PBX/CPE
- Class Carrier
- Other Telecom
- Total Telecom Summary

### Worksheet 5: Industrial

- Process Control
- Test & Measurement
- Other Industrial
- Clean Energy
- Total Industrial Summary

### Worksheet 6: Medical

- Monitoring
- Therapeutic
- Diagnostics/Surgical
- Total Medical Summary

### Worksheet 7: Aerospace/Military/Other Transportation

- In-Flight Entertainment
- Navigation Systems
- Weapons
- C3 Systems
- Other Military
- Other Aerospace/Other Transportation
- Total Aerospace/Military/Other Transportation

### Worksheet 8: World Total

- Total Production Assembly Value by Country
- EMS Assembly Value by Region
- In-House Assembly Value by Region
- Total Assembly Value by Market Segment/Product

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## List of Companies Profiled

### Automotive

Aisin Seiki  
Alps Electric  
Audi AG  
AutoLiv  
BMW  
Calsonic Kansei  
Chery Automobile  
Continental  
Daihatsu Motor  
Daimler  
Delphi  
Denso Corporation  
Dongfeng  
Eaton  
Fiat Chrysler  
Hella  
Hitachi  
Hyundai Motor  
Johnson Controls  
JVC Kenwood  
Kia Motors  
Lear Corporation  
Magna International  
Mahindra  
Mazda Motors  
Mitsubishi Electric  
Navistar  
Nissan  
Panasonic  
Peugeot SA  
Pioneer  
Renault  
Robert Bosch  
Takata Corporation  
Tata Motors  
Valeo  
Visteon  
Volkswagen AG  
Volvo AB

### Communications

Accton  
ADTRAN  
Apple Computer

### Communications (continued)

Arima Comm  
Arista Networks  
ARRIS  
AsusTek  
Avaya  
Blackberry  
Brocade Comm  
China Putian  
China SpaceSat  
Ciena  
Cisco Systems  
Coriant  
Datang Telecom  
D-Link  
ECI Telecom  
Ericsson  
Extreme Networks  
F5 Networks  
Fujitsu  
Harmonic  
Harris Corp.  
Hewlett Packard Ent.  
HTC  
Huawei  
Infinera  
Juniper Networks  
Kyocera  
Lenovo  
LG Mobile Com  
Mitel  
Motorola Solutions  
NEC  
Netgear  
Nokia Oyj  
Oki Electric  
Oppo  
Panasonic Mobile  
Panda Electronics  
Polycom  
Qorvo  
Quanta Computer  
Samsung Electronics  
Sanyo Electronics  
Sony Mobile  
Communications  
Spirent  
TCL  
Telent  
Tellabs  
Toshiba

### Communications (continued)

Ubiquiti  
Viavi Solutions  
Vivo  
Vtech  
Xiaomi  
ZTE  
  
Computers/Peripherals  
Acer  
Agfa-Gevaert  
Amazon  
Apple, Inc.  
AsusTek  
Barnes & Noble  
Brother Industries  
Canon  
Cisco  
Compal Electronics  
Cray, Inc.  
Dell Technologies  
Delta Electronics  
Diebold Nixdorf  
EliteGroup Computer  
  
Epson  
Fuji Xerox  
Fujitsu  
Gemalto  
Great Wall  
Hannstar Display  
Hewlett Packard  
Hitachi  
Hitachi Data  
IBM  
Intel  
Inventec  
Konica Minolta  
Lenovo  
Lexmark  
Logitech  
MicroStar  
MiTac  
NEC  
NetApp, Inc.  
Oracle

### Computers/Peripherals (continued)

Pitney Bowes  
Positivo Informatica  
Qisda  
Quanta Computer  
Ricoh  
Samsung Electronics  
SanDisk  
Sharp  
Sony  
Teradata  
Toshiba  
TPV  
Unisys  
Xerox

### Consumer

Acer  
Amtran  
Apple  
Arcelik  
ARRIS Group  
AU Optronics  
Bang & Olufsen  
Bosch Group  
BOSE  
Casio Computer  
Changhong  
Cisco Systems  
Compal Electronics  
Daewoo  
Dolby Laboratories  
EchoStar  
Electrolux  
Fitbit  
Foxconn  
Funai Electric  
Garmin  
General Electric  
Haier Electronics  
Harman International  
Hisense  
Hitachi  
Humax

### Consumer (continued)

JVC Kenwood  
Koninklijke Philips  
Konka Group  
LG Electronics  
Microsoft  
Midea Holding  
Mitsubishi Electric  
Nikon  
Nintendo  
Olympus  
Panasonic  
Pioneer  
Qisda  
Quanta Computer  
Roku  
Roland Corp.  
Samsung  
SmarDTV (Nagra)  
Sony  
Tatung  
TCL Corporation  
Technicolor  
TomTom  
Toshiba  
TPV  
Trimble Navigation  
Vestel  
Whirlpool  
Yamaha

### Industrial

ABB  
Abengoa  
Advantest  
Agilent  
ALSTOM  
Anritsu  
Applied Materials  
ASML  
Bharat Heavy  
Electricals  
Canadian Solar  
Caterpillar  
Changzhou Trina  
Solar

### Industrial (continued)

Cisco Systems  
CNH Global  
Coherent  
Cree  
Danaher  
Deere & Co.  
Diebold  
Eaton  
Ebara Corp.  
Electrolux  
Emerson  
Everi Holdings  
Exide Technologies  
Fanuc  
Federal Signal  
FEI Company  
First Solar  
Fronius International  
Fuji Electric  
Fujitsu  
Gamesa  
GE Industrial  
Gemalto  
General Dynamics  
Haier  
Halliburton  
Hanwha Q-Cells  
Hitachi  
Honeywell  
IGT  
Illumina  
Ingersoll Rand  
Itron  
ITT Corp.  
JEOL  
Johnson Controls  
Keysight  
Technologies  
KLA-Tencor  
Komatsu  
KONE Oyj  
Lam Research  
Lennox Intl.  
LG Electronics  
Mettler Toledo

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## List of Companies Profiled

<u>Industrial (continued)</u>	<u>Industrial (continued)</u>	<u>Medical</u>	<u>Medical (continued)</u>	<u>Aerospace/Other</u>	<u>Aerospace/Other (continued)</u>
Mitsubishi Electric	Shimadzu	3M Healthcare	Konica Minolta	Airbus SE	
MKS Instruments	Siemens AG	Abbott Labs	Masimo	Aptiv	Lufthansa Systems
MTS Systems	Smiths Group	Agilent	Medtronic	BAE Systems	Mitsubishi
National Instruments	SPX Corporation	Amgen	Novartis	Boeing	Mitsui Engineering
NCR	Sumitomo Heavy Industries	AstraZeneca	Omron	Boeing Defense	Mitsui Engineering
NEC	SunPower	B. Braun	Philips Electronics	Bombardier	Northrop Grumman
Nichia	Teradyne	Baxter International	Qiagen N.V.	Chemring	Orbital ATK
Omron	Texas Instruments	Beckman Coulter	ResMed	Dassault Aviation	Raytheon
OSRAM Licht	Textron, Inc.	Becton Dickinson	Roche	Embraer	Rockwell Collins
Panasonic Lighting	Thermo Fisher	Bio-Rad	Siemens Healthcare	Esterline	Saab
Parker-Hannifin	ThyssenKrupp AG	Boston Scientific	Smiths & Nephew	General Dynamics	SAFRAN
PerkinElmer	Tokyo Electron	Carl Zeiss Meditec	Smiths Group	General Electric	Suzuki Motor
Robert Bosch	Toshiba	CONMED	Stryker	Gogo LLC	Teledyne
Rockwell Automation	UTC	DaVita Healthcare	Sun Pharmaceuticals	Gulfstream	Textron
Rohde & Schwartz	Vestas Wind	Dentsply	Synthes	Hindustan Aerospace	Thales
Samsung	Waters	Dragerwerk	Terumo	Honda Motor	United Technologies
Schlumberger Omnes	Whirlpool Corporation	Edwards Lifesciences	Thermo Fisher	Honeywell	Yamaha
Schneider Electric	Yokogawa	Fresenius	Toshiba	Israel Aerospace	
Sharp Corporation		Fujitsu	Varian Medical	Kawasaki	
		GE Healthcare	Zimmer Biomet	L-3	
		Hitachi		Leonardo	
		Hologic		Lockheed Martin	
		Johnson & Johnson			

Published August 2018 - 64 Excel Tables, 90 Word Reports

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The Worldwide OEM Electronics Assembly Market - 2018 Edition (2017 database)

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**TOTAL**

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Automotive Entertainment Systems, 2017

The following tables illustrate the report side of this product of which the Excel database is the primary source. Examples of product/industry results by product category are provided along with key trend analyses by market sector by leading OEM company in this 90 page written addendum report. In addition, a worldwide OEM industry forecast is provided by individual product category and industry sector which take into account competing products and technologies.

Company	Prod. Total	Americas	EMEA	APAC	EMS Total	Americas	EMEA	APAC	L+H Total	Americas	EMEA	APAC
Daimler												
Volkswagen AG												
Robert Bosch												
Audi AG												
BMW												
Volvo AB												
Nissan												
Panasonic												
Kia Motors												
Renault												
Alps Electronics												
Hitachi												
Visteon												
Pioneer												
Delphi												
Hyundai Motor												
Aisin Seiki												
JVC Kenwood												
Peugeot SA												
Dongfeng												
Tata Motors												
Mazda Motors												
Chery Automobile												
Navistar												
Fiat Chrysler												
Mahindra												
<b>Top Entertainment Total</b>	<b>12,385</b>	<b>1,976</b>	<b>5,255</b>	<b>5,154</b>	<b>4,119</b>	<b>784</b>	<b>1,993</b>	<b>1,342</b>	<b>8,266</b>	<b>1,191</b>	<b>3,263</b>	<b>3,812</b>
Others	8,688	1,303	3,686	3,698	4,016	333	1,032	2,650	4,672	970	2,654	1,048
Percent	41.20%	15.00%	42.40%	42.60%	49.40%	8.30%	48.40%	66.00%	36.10%	20.80%	56.80%	22.40%
<b>Total Revenue</b>	<b>21,073</b>	<b>3,279</b>	<b>8,941</b>	<b>8,853</b>	<b>8,135</b>	<b>1,117</b>	<b>3,025</b>	<b>3,993</b>	<b>12,939</b>	<b>2,161</b>	<b>5,917</b>	<b>4,860</b>

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Communications Mobile Phones, 2017

Company	Prod. Cell	Ameri cas	EMEA	APAC	EMS Cell HS	Ameri cas	EMEA	APAC	I-H Cell HS	Ameri cas	EMEA	APAC
Samsung Electronics												
Apple Computer												
Xiaomi												
Huawei												
LG Mobile Com												
Lenovo												
Panda Electronics												
TCL												
Sony Mobile Communications												
Toshiba												
ZTE												
Quanta Computer												
HTC												
Sanyo Electronics												
Oppo												
Vivo												
Panasonic Mobile Comm												
NEC												
Asus Tek												
Blackberry												
Fujitsu												
Kyocera												
China SpaceSat												
<b>Top Cell Phone Total</b>	<b>249,747</b>	<b>33,055</b>	<b>21,902</b>	<b>194,791</b>	<b>97,923</b>	<b>1,201</b>	<b>817</b>	<b>95,905</b>	<b>151,824</b>	<b>31,853</b>	<b>21,085</b>	<b>98,886</b>
Others	135,391	40,617	28,208	66,566	14,517	4,587	8,984	945	120,874	36,030	19,224	65,620
<b>Total Revenue</b>	<b>385,138</b>	<b>73,672</b>	<b>50,110</b>	<b>261,356</b>	<b>112,440</b>	<b>5,789</b>	<b>9,801</b>	<b>96,850</b>	<b>272,698</b>	<b>67,883</b>	<b>40,309</b>	<b>164,506</b>

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Computer Servers, 2017

Company	Product ion	Ameri cas	EMEA	APAC	EMS Total	Ameri cas	EMEA	APAC	I-H Total	Ameri cas	EMEA	APAC
HPE												
Dell Technologies												
IBM												
Cisco												
Samsung Electronics												
Intel												
Lenovo												
Quanta Computer												
Sony												
Toshiba												
Fujitsu												
Oracle												
Acer												
NEC												
Ricoh												
Unisys												
Inventec												
Positivo Informatica												
HP, Inc.												
<b>Top Server Total</b>	<b>27,990</b>	<b>6,127</b>	<b>4,745</b>	<b>17,119</b>	<b>19,817</b>	<b>5,301</b>	<b>4,209</b>	<b>10,307</b>	<b>8,173</b>	<b>826</b>	<b>536</b>	<b>6,812</b>
Others	36,577	7,315	6,584	22,678	4,087	675	572	2,840	32,490	6,641	6,012	19,838
<b>Total Revenue</b>	<b>64,568</b>	<b>13,442</b>	<b>11,328</b>	<b>39,797</b>	<b>23,904</b>	<b>5,976</b>	<b>4,781</b>	<b>13,147</b>	<b>40,663</b>	<b>7,466</b>	<b>6,548</b>	<b>26,650</b>



# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Consumer Digital TVs, 2017

Company	Prod. Total	Americas	EMEA	APAC	EMS Total	Ameri cas	EMEA	APAC	I-H Total	Ameri cas	EMEA	APAC
Sony												
LG Electronics												
Quanta Computer												
Foxconn												
Midea Holding												
TPV												
Panasonic												
Mitsubishi Electric												
Samsung												
TCL Corporation												
Compal Electronics												
AU Optronics												
Qisda												
Changhong												
Hitachi												
Toshiba												
Konka Group												
Tatung												
Hisense												
Acer												
Daewoo												
Funai Electric												
Amtran												
Haier Electronics												
Vestel												
<b>Top Digital TV Total</b>	<b>61,826</b>	3,716	3,857	54,252	<b>17,505</b>	2,200	2,065	13,240	<b>44,321</b>	1,516	1,792	41,013
Others	10,449	628	596	9,226	8,107	569	523	7,015	2,342	59	73	2,210
<b>Total Revenue</b>	<b>72,275</b>	4,344	4,453	63,478	<b>25,612</b>	2,769	2,588	20,255	<b>46,663</b>	1,575	1,865	43,223



# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Medical Diagnostic Systems, 2017

<u>Company</u>	<u>Prod. Total</u>	<u>Ameri cas</u>	<u>EMEA</u>	<u>APAC</u>	<u>EMS Total</u>	<u>Ameri cas</u>	<u>EMEA</u>	<u>APAC</u>	<u>I-H Total</u>	<u>Ameri cas</u>	<u>EMEA</u>	<u>APAC</u>
GE Healthcare												
Johnson & Johnson												
Roche												
Siemens Healthcare												
Philips Electronics												
Hitachi												
Toshiba												
Fresenius												
DaVita Healthcare												
Medtronic												
Becton Dickinson												
Thermo Fisher												
Baxter International												
Fujitsu												
Agilent												
Beckman Coulter												
B. Braun												
Varian Medical												
Hologic												
Bio-Rad												
Abbott Labs												
Terumo												
Drägerwerk												
Konica Minolta												
Qiagen N.V.												
Smiths Group												
Carl Zeiss Meditec												
<b>Top Diagnostics Total</b>	<b>12,716</b>	5,630	3,200	3,886	<b>4,644</b>	1,838	1,256	1,550	<b>8,072</b>	3,792	1,944	2,336
Others	18,344	8,122	1,834	8,388	5,986	1,264	507	4,214	12,358	6,857	1,327	4,174
<b>Total Revenue</b>	<b>31,060</b>	13,751	5,035	12,274	<b>10,630</b>	3,103	1,763	5,764	<b>20,429</b>	10,649	3,271	6,510

# The Worldwide OEM Electronics Assembly Market - 2018 Edition

## Sample of Industry Analysis, Aerospace Flight Navigation Systems, 2017

Company	Prod. Total	Ameri cas	EMEA	APAC	EMS Total	Ameri cas	EMEA	APAC	I-H Total	Ameri cas	EMEA	APAC
Raytheon												
Airbus SE												
Boeing												
Northrop Grumman												
Lockheed Martin												
SAFRAN												
United Technologies												
Honeywell												
Dassault Aviation												
BAE Systems												
General Dynamics												
Saab												
Aptiv												
Gulfstream												
Rockwell Collins												
Esterline												
Bombardier												
Teledyne												
Thales												
Textron												
Orbital ATK												
Leonardo												
Hindustan Aerospace												
Israel Aerospace												
Embraer												
<b>Top Flight Navigation Total</b>	<b>17,056</b>	<b>9,817</b>	<b>5,634</b>	<b>1,606</b>	<b>4,722</b>	<b>3,136</b>	<b>1,209</b>	<b>377</b>	<b>12,334</b>	<b>6,681</b>	<b>4,425</b>	<b>1,229</b>
Others	1,767	707	530	530	911	455	46	410	856	251	485	120
<b>Total Revenue</b>	<b>18,823</b>	<b>10,523</b>	<b>6,164</b>	<b>2,136</b>	<b>5,633</b>	<b>3,591</b>	<b>1,255</b>	<b>787</b>	<b>13,191</b>	<b>6,932</b>	<b>4,909</b>	<b>1,349</b>

