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The Worldwide OEM Electronics Assembly Market - 2022 Edition

A Unique Database Providing Global Electronics Assembly Data of 384 of the World's Leading OEM Outsourcing Companies

Database Highlights

■ **Product Segment Analysis, 2021**

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

■ **Company-Level Analysis, 2021**

- ◆ **COGS Assembly Revenue**
- ◆ **Electronics COGS Assembly Revenue**
- ◆ **Outsourced/In-House Assembly Revenue**
- ◆ **Assembly Revenue by 3 Regions**
- ◆ **Assembly Revenue by 46 Products**

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The Worldwide OEM Electronics Assembly Market - 2022 Edition

Synopsis - 70 Page PP Discussion + 64 Excel Supporting Tables

The worldwide electronics assembly market is substantial in size, approximately \$1.4 trillion dollars in terms of cost of goods sold (COGS) as of 2021. The market has been expanding rapidly but changing in composition both in terms of outsourcing partnerships with in-house manufacturing. Also, moves are being made annually with regard to the manufacturing country of origin based on total cost.

Worldwide Market Summary for Electronics Assembly (EMS and In-House) - 2021 (\$M)

Company	EMS	In-House	All Pro- duction		
	Total	Total	Total	Percent	Percent
Automotive	22,848	64,885	87,733	26%	74%
Communications	236,980	335,261	572,241	41%	59%
Computer	197,924	163,024	360,948	55%	45%
Consumer	137,830	51,089	188,919	73%	27%
Industrial	44,427	84,763	122,265	36%	69%
Medical	25,347	24,956	50,303	50%	50%
Aerospace/Other Transportation	17,331	50,176	67,507	26%	74%
Total	682,687	774,154	1,449,916	47%	53%

New Venture Research (NVR) has followed the electronics assembly industry for over 25 years with its research reports that focus on all aspects of this industry. This report is a peerless database that analyzes the 2021 electronics assembly market on a worldwide basis. It is developed by studying 384 leading OEM electronics companies in 46 different product categories and their manufacturing activities in 3 different geographic regions. 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 46 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 - 2022 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 25 years' experience in technology and business research. He began his career as a telecom systems 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, Scotland.

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Synopsis - 70 Page PP Discussion and Excel Supporting Tables

Worksheet 1: Automotive

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

- Set-Top Boxes
- Digital Cameras
- DVD/DVR
- Camcorders
- Other Consumer
- Total Consumer Summary

Worksheet 2: Communications

- Mobile Phones
- Infrastructure
- Other Phones
- Enterprise LANs
- Wireless LANs
- DSL/Cable Modems
- PBX/CPE Systems
- Carrier-Class
- Other Communications
- Total Communications 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 3: Computer/Peripherals

- Notebooks
- Desktops
- Tablets/E-readers
- Servers
- Workstations
- ESS
- Monitors
- Printers
- E-Readers
- Other Computer
- Total Computer 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 4: Consumer Electronics

- Digital TV
- MP3/4
- Smart Home/AV/Wearables
- Games

Worksheet 8: World Total

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

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List of Companies Profiled

<u>Automotive</u>	<u>Communications</u>	<u>Communications (continued)</u>	<u>Computers/Peripherals (continued)</u>	<u>Consumer (continued)</u>	<u>Consumer (continued)</u>
Aisin Seiki	Accton	Palo Alto Networks	HP, Inc.	BOSE Corporation	Toshiba
Alps Electric	ADTRAN	Panasonic Mobile Comm	HPE	Casio Computer	TPV
Audi AG	ADVA Optical Networking	Panda Electronics	Huawei	Changhong	Trimble, Inc.
AutoLiv	Apple	Poly	IBM	Cisco Systems	Whirlpool
BAIC Motor	Arista Networks	Qorvo	Inspur	Commscope	Yamaha
Beijing Auto	AsusTek	Quanta Computer	Intel	Compal Electronics	<u>Industrial</u>
BMW	Avaya	realme	Inventec	Dolby Laboratories	ABB
Changan Motor	BBK Electronics	Ribbon	Konica Minolta	EchoStar	Advantest
Continental	China Putian	Communcations	Lenovo	Electrolux	Agilent
Daimler	China SpaceSat	Samsung Electronics	Logitech	Fitbit, Inc.	ALSTOM
Delphi Technology	Ciena	Spirent	MicroStar	Founder	Anritsu
Denso Corporation	Cisco Systems	TCL Electronics	MiTac	Funai Electric	Applied Materials
Dongfeng	CommScope	Telent	NEC	Garmin	ASML
Eaton Corp.	Datang Telecom	Tellabs	NetApp, Inc.	General Electric	Bharat Heavy Electricals
FAW Group	Dell Technologies	Toshiba	Oracle	Google	Bozhong Precision
Geely Motor	D-Link	Ubiquiti Networks	Pitney Bowes	Haier Electronics	Caterpillar
Guangzhou Auto	Ericsson	UTStarcom	Positivo Informatica	Hisense	Cisco Systems
Hella	Extreme Networks	Viavi Solutions	Qisda	Hitachi	CNH Industrial
Hitachi	F5 Networks	Vtech	Quanta Computer	Humax	Coherent
Honda Motor Corp.	FiberHome	Xiaomi	Ricoh	JVC Kenwood	Danaher
Hyundai Motor	Fortinet	ZTE	Samsung Electronics	Koninklijke Philips	Deere & Co.
Johnson Controls	Fujitsu	<u>Computers/Peripherals</u>	Sony	Konka Group	Diebold
JVC Kenwood	Google	Acer	Supermicro	LG Electronics	Eaton
Kia Corp.	Harmonic	Agfa-Gevaert	Teradata	Microsoft	Ebara Corp.
Magna International	Hewlett Packard Enterprise	Amazon	Tongfang	Midea Holding	Electrolux
Mahindra & Mahindra	Huawei	Apple, Inc.	Toshiba	Mitsubishi Electric	Emerson
Maruti Suzuki	Infinera	AsusTek	TPV	Nikon	Everi Holdings
Mazda Motors	Juniper Networks	Brother Industries	Unisys	Nintendo	Fanuc
Mitsubishi Motors	Keysight Technologies	Canon	Western Digital	Olympus	Federal Signal
Navistar International	Technologies	Cisco	Xerox	Panasonic	First_Solar
Nissan	Kyocera	Compal Electronics	Zebra Technologies	Qisda	Fuji Electric
Panasonic	L3Harris Technologies	Dell Technologies	<u>Consumer</u>	Quanta Computer	Fujitsu
Renault	Lenovo	Delta Electronics	Acer	Roku	GE Industrial
Robert Bosch	LG Mobile Com	Diebold Nixdorf	Alibaba	Samsung	General Dynamics
SAIC Motor	Mitel	EliteGroup Computer Systems	Amazon	Skyworth	Haier Smart Home
Sony	Motorola Solutions	Epson	Amtran	SmarDTV (Nagra)	Halliburton
Stellantis	NEC	Founder	Apple	Sony	Hitachi
Tata Motors	Netgear	Fujitsu	Arcelik	Tatung	Honeywell
Tesla, Inc.	Nokia Oyj	GigaByte	AU Optronics	TCL Electronics	IGT
Valeo SE	Oki Electric	Google	BOE Technology	Technicolor	Illumina
Visteon Corp.		Great Wall	Robert Bosch	TomTom	Ingersoll Rand
Volkswagen AG		Hasee Computer		Tongfang	
Volvo		Hitachi Vantara			

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List of Companies Profiled

<u>Industrial (continued)</u>	<u>Industrial (continued)</u>	<u>Industrial (continued)</u>	<u>Medical (continued)</u>	<u>Medical (continued)</u>	<u>Aerospace/Other (continued)</u>
Itron	Panasonic Industrial	Tokyo Electron	Dragerwerk AG	Thermo Fisher	Israel Aerospace
ITT, Inc.	Parker-Hannifin	Toshiba	Edwards Lifesciences	Toshiba	Kawasaki
JA Solar Technology	PerkinElmer	Trina Solar	Fresenius SE	Cardinal Health	L3Harris
JEOL	Q-Cells (Hanwha)	Vestas Wind	Fujitsu	Zimmer Biomet	Leonardo
JinkoSolar	Raytheon	Waters Corporation	GE Healthcare	<u>Aerospace/Other</u>	Lockheed Martin
Johnson Controls	Robert Bosch	Whirlpool Corporation	Hitachi	Airbus SE	Lufthansa Systems
Keysight Technologies	Rockwell Automation	Yingli	Hologic, Inc.	AVIC International	Mitsubishi
KLA Corporation	Rohde & Schwarz	Yokogawa Electric	Johnson & Johnson	BAE Systems	Mitsui Engineering
Komatsu	Samsung	<u>Medical</u>	Konica Minolta	Boeing	Northrop Grumman
KONE Oyj	Schlumberger	3M Healthcare	Masimo	Boeing Defense	Orbital UAV
Lam Research	Schneider Electric	Abbott Labs	Medtronic Plc	Bombardier	Raytheon
Lennox Intl.	Shimadzu	Agilent	Mindray Medical	Chemring	Saab
LG Electronics	Siemens AG	Amgen	Novartis AG	China Aerospace	SAFRAN
LONGi	Siemens Gamesa	AstraZeneca	Omron Corp.	China Electronics Corp.	SpaceX
Mettler Toledo	SMIC	B. Braun Melsungen	Koninklijke Philips	Dassault Aviation	Suzuki Motor
Mitsubishi Electric	Smiths Group	Baxter International	Qiagen N.V.	Embraer	Teledyne
MKS Instruments	SPX Corporation	Becton Dickinson	ResMed	General Dynamics	Textron
MTS Systems	Sumitomo Heavy Industries	Bio-Rad Laboratories	Roche	General Electric	Thales
National Instruments	SunPower	Boston Scientific	Siemens Healthcare	Gogo LLC	Yamaha
NCR	Teradyne, Inc.	Carl Zeiss Meditec	Smith & Nephew	Gulfstream Aerospace	
NEC	Texas Instruments	CONMED	Smiths Group	Hindustan Aerospace	
Nichia	Textron, Inc.	Danaher Corporation	Stryker Corp.	Honda Motor	
Omron	Thermo Fisher Scientific	DaVita Inc.	Sun Pharmaceuticals	Honeywell	
OSRAM Licht	ThyssenKrupp AG	Dentsply Sirona	Terumo Corp.		

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TOTAL

