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The Worldwide OEM Electronics Assembly Market - 2023 Edition

A Unique Database Providing Global Electronics Assembly Data of 381 of the World's Leading OEM Manufacturing and Outsourcing Companies

Database Highlights

- **Product Segment Analysis, 2022**
  - **Automotive**
  - **Communications**
  - **Computers/Peripherals**
  - **Consumer Electronics**
  - **Industrial**
  - **Medical**
  - **Aerospace/Military/Other Transportation**

- **Company-Level Analysis, 2022**
  - **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 - 2023 Edition

Synopsis - 70 Page PP Discussion + 64 Excel Supporting Tables

The worldwide electronics assembly market is substantial in size, approximately $1. trillion dollars in terms of cost of goods sold (COGS) as of 2022. 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 Electronics Market by Source and Industry, 2022

Total Assembly ($M)	EMS	ODM	OEM	Total
Computer	131,037	73,524	131,102	335,663
Communications	211,119	26,452	306,270	543,842
Consumer	92,671	29,301	70,983	192,955
Industrial	45,362	2,119	79,903	127,384
Medical	30,621	881	21,566	53,068
Automotive	29,918	1,050	61,375	92,343
Aviation/Defense/ Other	20,368		50,729	71,097
Total	**561,096**	**133,328**	**721,928**	**1,416,352**

New Venture Research (NVR) has followed the electronics assembly industry for over 30 years with its research reports that focus on all aspects of this industry. This report is a peerless database that analyzes the 2022 electronics assembly market on a worldwide basis. It is developed by studying 381 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 - 2023 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 and the Excel spreadsheet is $1000.

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 33 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

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 3: Computer/Peripherals

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

Worksheet 4: Consumer Electronics

- Digital TV
- MP3/4
- Smart Home/AV/Wearables
- Console Games
- Set-Top Boxes
- Digital Cameras
- DVD/DVR
- Camcorders
- Other Consumer
- Total Consumer 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 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

Automotive

Aisin Seiki
Alps Electric
Audi AG
AutoLiv
BAIC Motor
Beijing Auto
BMW
Changan Motor
Continental
Daimler
Delphi Technology
Denso Corporation
Dongfeng
Eaton Corp.
FAW Group
Geely Motor
Guangzhou Auto
Hella
Hitachi
Honda Motor Corp.
Hyundai Motor
Johnson Controls
JVC Kenwood
Kia Corp.
Magna International
Mahindra & Mahindra
Maruti Suzuki
Mazda Motors
Mitsubishi Motors
Navistar International
Nissan
Panasonic
Renault
Robert Bosch
SAIC Motor
Sony
Stellantis
Tata Motors
Tesla, Inc.
Valeo SE
Visteon Corp.
Volkswagen AG
Volvo

Communications

Accton
ADTRAN
Apple
Arista Networks
AsusTek
Avaya
BBK Electronics
Blackberry
China SpaceSat
China Tower
Ciena
Cisco Systems
Cobham SATCOM
CommScope
Datang Telecom
Dell Technologies
D-Link
Ericsson
Extreme Networks
F5, Inc.
FiberHome
Fortinet
Fujitsu
Google
Harmonic
Harris Technology Group
Hewlett Packard Enterprise
Huawei
Infinera
Juniper Networks
Keysight Technologies
Kyocera
Lenovo
LG Mobile Com
Motorola Solutions
NEC
Netgear
Nokia Oyj
NTT DoCoMo
Oki Electric

Communications (continued)

Palo Alto Networks
Panasonic Mobile Comm
Panda Electronics
Plantronics
Qorvo
Quanta Computer
Orange SA
Ribbon Communcations
Samsung Electronics
Spirent
TCL Electronics
Telia
Cobham SATCOM
Toshiba
Ubiquiti Networks
UTStarcom
Viavi Solutions
Vtech
Xiaomi
ZTE

Computers/Peripherals

Acer
Agfa-Gevaert
Amazon
Apple, Inc.
AsusTek
Brother Industries
Canon
Cisco
Compal Electronics
Dell Technologies
Delta Electronics
Diebold Nixdorf
ECS
Epson
Founder
Fujitsu
GigaByte
Google
Great Wall
Hasee Computer
Hitachi Vantara
HP, Inc.

Computers/Peripherals (continued)

HPE
Huawei
IBM
Seagate
Intel
Inventec
Konica Minolta
Lenovo
Logitech
Micro-Star
MiTac
NEC
NetApp, Inc.
Oracle
Pitney Bowes
Positivo Informatica
Qisda
Quanta Computer
Ricoh
Samsung Electronics
Sony
Supermicro
Teradata
Tongfang
Toshiba
TPV
Unisys
Western Digital
Xerox
Zebra Technologies

Consumer

Acer
Alibaba
Amazon
AmTRAN
Apple
Arcelik
Arris International
AU Optronics
BOE Technology
BOSE Corporation

Consumer (continued)

Casio Computer
Changhong
Cisco Systems
Commscope
Compal Electronics
Dolby Laboratories
EchoStar
Electrolux
Fitbit, Inc.
Funai Electric
Garmin
General Electric
Google
Haier Group
Hisense
Hitachi
Humax
JVC Kenwood
Koninklijke Philips
Konka Group
LG Electronics
Magnavox
Microsoft
Midea Holding
Mitsubishi Electric
Nikon
Nintendo
Olympus
Panasonic
Qisda
Quanta Computer
Robert Bosch
Roku
Samsung
Skyworth
Sony
Tatung
TCL Electronics
TomTom
Tongfang

Consumer (continued)

Toshiba
TPV
Trimble, Inc.
Vantiva
Whirlpool
Yamaha

Industrial

ABB
Acuity Brands
Advantest
Agilent
ALSTOM
Anritsu
Applied Materials
ASML
Bharat Heavy Electricals
Bozhong Precision
Caterpillar
Cisco Systems
CNH Industrial
Coherent
Danaher
Deere & Co.
Diebold
Eaton
Ebara Corp.
Electrolux
Emerson
Everi Holdings
Fanuc
Federal Signal
First Solar
Fuji Electric
Fujitsu
GE Industrial
General Dynamics
Haier Smart Home
Halliburton
Hanwha Corp.
Hitachi
Honeywell
IGT
Illumina
Ingersoll Rand

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List of Companies Profiled

Industrial (continued)

Itron
ITT, Inc.
Iwatsu Electric
JA Solar Technology
JEOL
JinkoSolar
Johnson Controls
Keysight Technologies
KLA Corporation
Komatsu
KONE Oyj
Lam Research
Lennox Intl.
LG Electronics
LONGi
Mettler Toledo
Mitsubishi Electric
MKS Instruments
National Instruments
NCR
NEC
Nichia
Nordex
Omron
Panasonic Industrial

Industrial (continued)

Parker-Hannifin
PerkinElmer
Raytheon
Robert Bosch
Rockwell Automation
Rohde & Schwarz
Samsung
Schlumberger
Schneider Electric
Shimadzu
Siemens AG
SMIC
SMIC
Smiths Group
SPX Corporation
Sumitomo Heavy Industries
SunPower
Teradyne, Inc.
Texas Instruments
Textron, Inc.
Thermo Fisher Scientific
ThyssenKrupp AG

Industrial (continued)

Tokyo Electron
Toshiba
Trina Solar
Vestas Wind
Waters Corporation
Whirlpool Corp.
Yokogawa Electric

Medical

3M Healthcare
Abbott Labs
Agilent
Amgen
AstraZeneca
B. Braun Melsungen
Baxter International
Becton Dickinson
Bio-Rad Laboratories
Boston Scientific
Cardinal Health
Carl Zeiss Meditec
CONMED
Danaher Corporation
DaVita Inc.
Dentsply Sirona

Medical (continued)

Dragerwerk AG
Edwards Lifesciences
Fresenius SE
Fujitsu
GE Healthcare
Hitachi
Hologic, Inc.
Johnson & Johnson
Konica Minolta
Koninklijke Philips
Masimo
Medtronic Plc
Mindray Medical
Novartis AG
Omron Corp.
Qiagen N.V.
ResMed
Roche
Siemens Healthcare
Smith & Nephew
Smiths Group
Stryker Corp.
Sun Pharmaceuticals
Terumo Corp.
Thermo Fisher

Medical (continued)

Toshiba
Zimmer Biomet

Aerospace/Other

Airbus SE
AVIC International
BAE Systems
Boeing
Boeing Defense
Bombardier
Canadian National Railway
Central Japan Railway
Chemring Group
China Aerospace
Dassault Aviation
Deutsche Bahn
Embraer
General Dynamics
General Electric
Gogo LLC
Hindustan Aeronautics
Honda Motor
Honeywell

Aerospace/Other (continued)

Israel Aerospace
Kawasaki
L3Harris
Leonardo S.p.a.
Lockheed Martin
Mitsubishi
Mitsui E&S Holdings
Northrop Grumman
Raytheon
Saab
SAFRAN SA
SpaceX
Suzuki Motor
Teledyne
Textron
Thales
Union Pacific
Yamaha Motors

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The Worldwide OEM Electronics Assembly Market - 2023 Edition (2022 database)	$3,995
Extra Single-User Licenses ($500 each); Corporate License ($1500) - Excel spreadsheet - $1000	
TOTAL	

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Sample of Industry Analysis, Automotive Entertainment Systems, 2021

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 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	Ameri cas	EMEA	APAC	EMS Total	Ameri cas	EMEA	APAC	I-H Total	Ameri cas	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												
Top Entertainment Total												
Others												
Percent												
Total Revenue												

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Sample of Industry Analysis, Communications Mobile Phones, 2021

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												
AsusTek												
Blackberry												
Fujitsu												
Kyocera												
China SpaceSat												
Top Cell Phone Total												
Others												
Total Revenue												

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Sample of Industry Analysis, Computer Servers, 2021

Company	Production	Americas	EMEA	APAC	EMS Total	Americas	EMEA	APAC	I-H Total	Americas	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.												
Top Server Total												
Others												
Total Revenue												

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Sample of Industry Analysis, Consumer Digital TVs, 2022

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												
Top Digital TV Total												
Others												
Total Revenue												

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Sample of Industry Analysis, Industrial Process Control, 2022

Company
Caterpillar
ABB
Deere & Co.
Siemens AG
General Dynamics
Schlumberger Omnes
Danaher
ThyssenKrupp AG
GE Industrial
Mitsubishi Electric
UTC
CNH Global
Halliburton
Komatsu
Toshiba
Robert Bosch
Fujitsu
Honeywell
Fuji Electric
Parker-Hannifin
Schneider Electric
Hitachi
Emerson
ALSTOM
Cisco Systems
Sumitomo Heavy Industries
Rockwell Automation
KONE Oyj
Eaton
Yokogawa
Itron
Johnson Controls
ITT Corp.
Bharat Heavy Electricals
Ebara Corp.
Ingersoll Rand
SPX Corporation
Abengoa
Fanuc
Omron
Exide Technologies
Gamesa
Federal Signal
Waters Corporation
Top Industrial Total
Others
Total Revenue

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Sample of Industry Analysis, Medical Diagnostic Systems, 2022

Company	Prod. Total	Ameri cas	EMEA	APAC	EMS Total	Ameri cas	EMEA	APAC	I-H Total	Ameri cas	EMEA	APAC
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												
Dragerwerk												
Konica Minolta												
Qiagen N.V.												
Smiths Group												
Carl Zeiss Meditec												
Top Diagnostics Total												
Others												
Total Revenue												

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Sample of Industry Analysis, Aerospace Flight Navigation Systems, 2022

Company	Prod. Total	Americas	EMEA	APAC	EMS Total	Americas	EMEA	APAC	I-H Total	Americas	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												

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Sample of WW Industry Analysis, All Electronic Systems, 2022

	Production				EMS				In-House			
Company	**Total**	**Americas**	**EMEA**	**APAC**	**Total**	**Americas**	**EMEA**	**APAC**	**Total**	**Americas**	**EMEA**	**APAC**
Automotive												
Communications												
Computer												
Consumer												
Industrial												
Medical												
Aerospace/Other Transportation												
Total												
	100.00%											