

Global Triac Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Triac market size is expected to reach \$ 465 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

A Triac is a three-terminal bidirectional power semiconductor device used as the core switching and phase-control element for AC loads. Its terminals are typically MT1, MT2, and Gate, and once triggered it can conduct current in both directions during the positive and negative half-cycles of an AC waveform. The device is generally built on a silicon multilayer structure and is supplied in multiple package forms such as TO-92, SOT-223, TO-252, TO-220, TO-247, TO-3, and panel-mount styles. Product families commonly include sensitive-gate types, medium- and high-current types, high-voltage types, 3-quadrant and 4-quadrant types, Snubberless types, and versions with clamping or over-temperature protection. Triac devices are widely used in dimmers, motor speed control, heater control, white goods, office equipment, industrial AC control, and solid-state relays.

The growth logic of the Triac market continues to rest on the long-term persistence of AC-side power control. Although many newer power-electronics architectures are emerging, Triac still retains clear advantages in lighting dimming, heater control, small AC motor speed control, fans, pumps, kitchen appliances, cleaning devices, and conventional white goods, including low component count, simple drive requirements, controllable cost, long service life, and direct suitability for AC load control. As appliances become smarter, more energy-efficient, and quieter, downstream customers are demanding higher junction-temperature capability, stronger dv/dt robustness, lower false-trigger sensitivity, and more 3-quadrant and Snubberless solutions, creating structural opportunities for higher-reliability and protection-enhanced product families.

At the same time, the Triac market faces visible constraints. First, its demand is strongly tied to AC-side control, and part of the market is being diverted in high-frequency, high-efficiency, precision-control, and strict energy-performance applications by MOSFET, IGBT, SiC, GaN, and back-to-back MOSFET AC-switch solutions. Second, Triac-based design remains sensitive to commutation behavior, inductive loads, false triggering, EMI, commutating dv/dt, and thermal design, so application engineering is not trivial. Third, some legacy product lines are exposed to NRND status, discontinuation, or brand integration, which means that supply traceability, continuity, and original-manufacturer technical support are increasingly important in both procurement and investment screening.

Downstream demand is evolving toward a structure of stable shipments in mature applications combined with performance upgrades in selected niches. On the consumer side, the main demand base remains lighting dimming, air conditioners, washing machines, microwave ovens, auxiliary induction-heating control, coffee machines, electric-heating equipment, and small home appliances. On the industrial side, demand is concentrated in small and medium AC motors, valve control, temperature control, AC switching, and selected solid-state relay modules. Regionally, Asia remains the core production and demand center because both manufacturing chains and verified suppliers are concentrated in China Mainland, Japan, Taiwan, South Korea, and India. Future growth is therefore more likely to be steady and application-driven than explosive, with expansion tied to appliance upgrades, smart control, reliability improvement, and local substitution.

This report studies the global Triac production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Triac and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Triac that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Triac total production and demand, 2021-2032, (K Units)

Global Triac total production value, 2021-2032, (USD Million)

Global Triac production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Triac consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Triac domestic production, consumption, key domestic manufacturers and share

Global Triac production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Triac production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Triac production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Triac market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Central Semiconductor, STMicroelectronics, Littelfuse, WeEn Semiconductors, Shindengen Electric, SANSHA ELECTRIC, Jiangsu Jiejie Microelectronics, Yangzhou Yangjie Electronic Technology, Jilin Sino-Microelectronics, Dongguan Huanxinwei Industrial, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Triac market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Triac Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Triac Market, Segmentation by Type:

6A-10A

12A-20A

More than 20A

Global Triac Market, Segmentation by Trigger Quadrant Capability:

3-quadrant Triac

4-quadrant Triac

Global Triac Market, Segmentation by Repetitive Peak Off-state Voltage:

?400 V Triac

>400 V to 600 V Triac

>600 V to 800 V Triac

>800 V to 1200 V Triac

Global Triac Market, Segmentation by Maximum Junction Temperature Class:

125°C class Triac

150°C class Triac

Global Triac Market, Segmentation by Application:

Electric Fans

Light Dimmers

Household Appliances

Other

Companies Profiled:

Central Semiconductor

STMicroelectronics

Littelfuse

WeEn Semiconductors

Shindengen Electric

SANSHA ELECTRIC

Jiangsu Jiejie Microelectronics

Yangzhou Yangjie Electronic Technology

Jilin Sino-Microelectronics

Dongguan Huanxinwei Industrial

Shenzhen HaoPin Microelectronics

Xiamen Kudom Electronics Technology

Continental Device India

Naina Semiconductor

Unisonic Technologies

SemiHow

Semiware Semiconductor

Dongchen Electronics

Key Questions Answered:

1. How big is the global Triac market?
2. What is the demand of the global Triac market?
3. What is the year over year growth of the global Triac market?
4. What is the production and production value of the global Triac market?
5. Who are the key producers in the global Triac market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Triac Introduction
- 1.2 World Triac Supply & Forecast
 - 1.2.1 World Triac Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Triac Production (2021-2032)
 - 1.2.3 World Triac Pricing Trends (2021-2032)
- 1.3 World Triac Production by Region (Based on Production Site)
 - 1.3.1 World Triac Production Value by Region (2021-2032)
 - 1.3.2 World Triac Production by Region (2021-2032)
 - 1.3.3 World Triac Average Price by Region (2021-2032)
 - 1.3.4 North America Triac Production (2021-2032)
 - 1.3.5 Europe Triac Production (2021-2032)
 - 1.3.6 China Triac Production (2021-2032)
 - 1.3.7 Japan Triac Production (2021-2032)
 - 1.3.8 South Korea Triac Production (2021-2032)
 - 1.3.9 India Triac Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Triac Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Triac Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Triac Demand (2021-2032)
- 2.2 World Triac Consumption by Region
 - 2.2.1 World Triac Consumption by Region (2021-2026)
 - 2.2.2 World Triac Consumption Forecast by Region (2027-2032)
- 2.3 United States Triac Consumption (2021-2032)
- 2.4 China Triac Consumption (2021-2032)
- 2.5 Europe Triac Consumption (2021-2032)
- 2.6 Japan Triac Consumption (2021-2032)
- 2.7 South Korea Triac Consumption (2021-2032)
- 2.8 ASEAN Triac Consumption (2021-2032)
- 2.9 India Triac Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Triac Production Value by Manufacturer (2021-2026)
- 3.2 World Triac Production by Manufacturer (2021-2026)
- 3.3 World Triac Average Price by Manufacturer (2021-2026)
- 3.4 Triac Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Triac Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Triac in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Triac in 2025
- 3.6 Triac Market: Overall Company Footprint Analysis
 - 3.6.1 Triac Market: Region Footprint
 - 3.6.2 Triac Market: Company Product Type Footprint
 - 3.6.3 Triac Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Triac Production Value Comparison
 - 4.1.1 United States VS China: Triac Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Triac Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Triac Production Comparison
 - 4.2.1 United States VS China: Triac Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Triac Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Triac Consumption Comparison
 - 4.3.1 United States VS China: Triac Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Triac Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Triac Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Triac Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Triac Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Triac Production (2021-2026)
- 4.5 China Based Triac Manufacturers and Market Share
 - 4.5.1 China Based Triac Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Triac Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Triac Production (2021-2026)
- 4.6 Rest of World Based Triac Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Triac Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Triac Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Triac Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Triac Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 6A-10A
 - 5.2.2 12A-20A
 - 5.2.3 More than 20A
- 5.3 Market Segment by Type
 - 5.3.1 World Triac Production by Type (2021-2032)
 - 5.3.2 World Triac Production Value by Type (2021-2032)
 - 5.3.3 World Triac Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TRIGGER QUADRANT CAPABILITY

- 6.1 World Triac Market Size Overview by Trigger Quadrant Capability: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Trigger Quadrant Capability
 - 6.2.1 3-quadrant Triac
 - 6.2.2 4-quadrant Triac
- 6.3 Market Segment by Trigger Quadrant Capability
 - 6.3.1 World Triac Production by Trigger Quadrant Capability (2021-2032)
 - 6.3.2 World Triac Production Value by Trigger Quadrant Capability (2021-2032)
 - 6.3.3 World Triac Average Price by Trigger Quadrant Capability (2021-2032)

7 MARKET ANALYSIS BY REPETITIVE PEAK OFF-STATE VOLTAGE

- 7.1 World Triac Market Size Overview by Repetitive Peak Off-state Voltage: 2021 VS

2025 VS 2032

7.2 Segment Introduction by Repetitive Peak Off-state Voltage

7.2.1 ?400 V Triac

7.2.2 >400 V to 600 V Triac

7.2.3 >600 V to 800 V Triac

7.2.4 >800 V to 1200 V Triac

7.3 Market Segment by Repetitive Peak Off-state Voltage

7.3.1 World Triac Production by Repetitive Peak Off-state Voltage (2021-2032)

7.3.2 World Triac Production Value by Repetitive Peak Off-state Voltage (2021-2032)

7.3.3 World Triac Average Price by Repetitive Peak Off-state Voltage (2021-2032)

8 MARKET ANALYSIS BY MAXIMUM JUNCTION TEMPERATURE CLASS

8.1 World Triac Market Size Overview by Maximum Junction Temperature Class: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Maximum Junction Temperature Class

8.2.1 125°C class Triac

8.2.2 150°C class Triac

8.3 Market Segment by Maximum Junction Temperature Class

8.3.1 World Triac Production by Maximum Junction Temperature Class (2021-2032)

8.3.2 World Triac Production Value by Maximum Junction Temperature Class (2021-2032)

8.3.3 World Triac Average Price by Maximum Junction Temperature Class (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Triac Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Electric Fans

9.2.2 Light Dimmers

9.2.3 Household Appliances

9.2.4 Other

9.3 Market Segment by Application

9.3.1 World Triac Production by Application (2021-2032)

9.3.2 World Triac Production Value by Application (2021-2032)

9.3.3 World Triac Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Central Semiconductor

10.1.1 Central Semiconductor Details

10.1.2 Central Semiconductor Major Business

10.1.3 Central Semiconductor Triac Product and Services

10.1.4 Central Semiconductor Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Central Semiconductor Recent Developments/Updates

10.1.6 Central Semiconductor Competitive Strengths & Weaknesses

10.2 STMicroelectronics

10.2.1 STMicroelectronics Details

10.2.2 STMicroelectronics Major Business

10.2.3 STMicroelectronics Triac Product and Services

10.2.4 STMicroelectronics Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 STMicroelectronics Recent Developments/Updates

10.2.6 STMicroelectronics Competitive Strengths & Weaknesses

10.3 Littelfuse

10.3.1 Littelfuse Details

10.3.2 Littelfuse Major Business

10.3.3 Littelfuse Triac Product and Services

10.3.4 Littelfuse Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Littelfuse Recent Developments/Updates

10.3.6 Littelfuse Competitive Strengths & Weaknesses

10.4 WeEn Semiconductors

10.4.1 WeEn Semiconductors Details

10.4.2 WeEn Semiconductors Major Business

10.4.3 WeEn Semiconductors Triac Product and Services

10.4.4 WeEn Semiconductors Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 WeEn Semiconductors Recent Developments/Updates

10.4.6 WeEn Semiconductors Competitive Strengths & Weaknesses

10.5 Shindengen Electric

10.5.1 Shindengen Electric Details

10.5.2 Shindengen Electric Major Business

10.5.3 Shindengen Electric Triac Product and Services

10.5.4 Shindengen Electric Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.5.5 Shindengen Electric Recent Developments/Updates
- 10.5.6 Shindengen Electric Competitive Strengths & Weaknesses
- 10.6 SANSCHA ELECTRIC
 - 10.6.1 SANSCHA ELECTRIC Details
 - 10.6.2 SANSCHA ELECTRIC Major Business
 - 10.6.3 SANSCHA ELECTRIC Triac Product and Services
 - 10.6.4 SANSCHA ELECTRIC Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 SANSCHA ELECTRIC Recent Developments/Updates
 - 10.6.6 SANSCHA ELECTRIC Competitive Strengths & Weaknesses
- 10.7 Jiangsu Jiejie Microelectronics
 - 10.7.1 Jiangsu Jiejie Microelectronics Details
 - 10.7.2 Jiangsu Jiejie Microelectronics Major Business
 - 10.7.3 Jiangsu Jiejie Microelectronics Triac Product and Services
 - 10.7.4 Jiangsu Jiejie Microelectronics Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Jiangsu Jiejie Microelectronics Recent Developments/Updates
 - 10.7.6 Jiangsu Jiejie Microelectronics Competitive Strengths & Weaknesses
- 10.8 Yangzhou Yangjie Electronic Technology
 - 10.8.1 Yangzhou Yangjie Electronic Technology Details
 - 10.8.2 Yangzhou Yangjie Electronic Technology Major Business
 - 10.8.3 Yangzhou Yangjie Electronic Technology Triac Product and Services
 - 10.8.4 Yangzhou Yangjie Electronic Technology Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Yangzhou Yangjie Electronic Technology Recent Developments/Updates
 - 10.8.6 Yangzhou Yangjie Electronic Technology Competitive Strengths & Weaknesses
- 10.9 Jilin Sino-Microelectronics
 - 10.9.1 Jilin Sino-Microelectronics Details
 - 10.9.2 Jilin Sino-Microelectronics Major Business
 - 10.9.3 Jilin Sino-Microelectronics Triac Product and Services
 - 10.9.4 Jilin Sino-Microelectronics Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 Jilin Sino-Microelectronics Recent Developments/Updates
 - 10.9.6 Jilin Sino-Microelectronics Competitive Strengths & Weaknesses
- 10.10 Dongguan Huanxinwei Industrial
 - 10.10.1 Dongguan Huanxinwei Industrial Details
 - 10.10.2 Dongguan Huanxinwei Industrial Major Business
 - 10.10.3 Dongguan Huanxinwei Industrial Triac Product and Services
 - 10.10.4 Dongguan Huanxinwei Industrial Triac Production, Price, Value, Gross Margin

and Market Share (2021-2026)

10.10.5 Dongguan Huanxinwei Industrial Recent Developments/Updates

10.10.6 Dongguan Huanxinwei Industrial Competitive Strengths & Weaknesses

10.11 Shenzhen HaoPin Microelectronics

10.11.1 Shenzhen HaoPin Microelectronics Details

10.11.2 Shenzhen HaoPin Microelectronics Major Business

10.11.3 Shenzhen HaoPin Microelectronics Triac Product and Services

10.11.4 Shenzhen HaoPin Microelectronics Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 Shenzhen HaoPin Microelectronics Recent Developments/Updates

10.11.6 Shenzhen HaoPin Microelectronics Competitive Strengths & Weaknesses

10.12 Xiamen Kudom Electronics Technology

10.12.1 Xiamen Kudom Electronics Technology Details

10.12.2 Xiamen Kudom Electronics Technology Major Business

10.12.3 Xiamen Kudom Electronics Technology Triac Product and Services

10.12.4 Xiamen Kudom Electronics Technology Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.12.5 Xiamen Kudom Electronics Technology Recent Developments/Updates

10.12.6 Xiamen Kudom Electronics Technology Competitive Strengths & Weaknesses

10.13 Continental Device India

10.13.1 Continental Device India Details

10.13.2 Continental Device India Major Business

10.13.3 Continental Device India Triac Product and Services

10.13.4 Continental Device India Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.13.5 Continental Device India Recent Developments/Updates

10.13.6 Continental Device India Competitive Strengths & Weaknesses

10.14 Naina Semiconductor

10.14.1 Naina Semiconductor Details

10.14.2 Naina Semiconductor Major Business

10.14.3 Naina Semiconductor Triac Product and Services

10.14.4 Naina Semiconductor Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.14.5 Naina Semiconductor Recent Developments/Updates

10.14.6 Naina Semiconductor Competitive Strengths & Weaknesses

10.15 Unisonic Technologies

10.15.1 Unisonic Technologies Details

10.15.2 Unisonic Technologies Major Business

10.15.3 Unisonic Technologies Triac Product and Services

10.15.4 Unisonic Technologies Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.15.5 Unisonic Technologies Recent Developments/Updates

10.15.6 Unisonic Technologies Competitive Strengths & Weaknesses

10.16 SemiHow

10.16.1 SemiHow Details

10.16.2 SemiHow Major Business

10.16.3 SemiHow Triac Product and Services

10.16.4 SemiHow Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.16.5 SemiHow Recent Developments/Updates

10.16.6 SemiHow Competitive Strengths & Weaknesses

10.17 Semiware Semiconductor

10.17.1 Semiware Semiconductor Details

10.17.2 Semiware Semiconductor Major Business

10.17.3 Semiware Semiconductor Triac Product and Services

10.17.4 Semiware Semiconductor Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.17.5 Semiware Semiconductor Recent Developments/Updates

10.17.6 Semiware Semiconductor Competitive Strengths & Weaknesses

10.18 Dongchen Electronics

10.18.1 Dongchen Electronics Details

10.18.2 Dongchen Electronics Major Business

10.18.3 Dongchen Electronics Triac Product and Services

10.18.4 Dongchen Electronics Triac Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 Dongchen Electronics Recent Developments/Updates

10.18.6 Dongchen Electronics Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Triac Industry Chain

11.2 Triac Upstream Analysis

11.2.1 Triac Core Raw Materials

11.2.2 Main Manufacturers of Triac Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Triac Production Mode

11.6 Triac Procurement Model

11.7 Triac Industry Sales Model and Sales Channels

11.7.1 Triac Sales Model

11.7.2 Triac Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Triac Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Triac Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Triac Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Triac Production Value Market Share by Region (2021-2026)
- Table 5. World Triac Production Value Market Share by Region (2027-2032)
- Table 6. World Triac Production by Region (2021-2026) & (K Units)
- Table 7. World Triac Production by Region (2027-2032) & (K Units)
- Table 8. World Triac Production Market Share by Region (2021-2026)
- Table 9. World Triac Production Market Share by Region (2027-2032)
- Table 10. World Triac Average Price by Region (2021-2026) & (USD/Unit)
- Table 11. World Triac Average Price by Region (2027-2032) & (USD/Unit)
- Table 12. Triac Major Market Trends
- Table 13. World Triac Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Triac Consumption by Region (2021-2026) & (K Units)
- Table 15. World Triac Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Triac Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Triac Producers in 2025
- Table 18. World Triac Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Triac Producers in 2025
- Table 20. World Triac Average Price by Manufacturer (2021-2026) & (USD/Unit)
- Table 21. Global Triac Company Evaluation Quadrant
- Table 22. World Triac Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Triac Production Site of Key Manufacturer
- Table 24. Triac Market: Company Product Type Footprint
- Table 25. Triac Market: Company Product Application Footprint
- Table 26. Triac Competitive Factors
- Table 27. Triac New Entrant and Capacity Expansion Plans
- Table 28. Triac Mergers & Acquisitions Activity
- Table 29. United States VS China Triac Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Triac Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Triac Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Triac Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Triac Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Triac Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Triac Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Triac Production Market Share (2021-2026)

Table 37. China Based Triac Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Triac Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Triac Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Triac Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Triac Production Market Share (2021-2026)

Table 42. Rest of World Based Triac Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Triac Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Triac Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Triac Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Triac Production Market Share (2021-2026)

Table 47. World Triac Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Triac Production by Type (2021-2026) & (K Units)

Table 49. World Triac Production by Type (2027-2032) & (K Units)

Table 50. World Triac Production Value by Type (2021-2026) & (USD Million)

Table 51. World Triac Production Value by Type (2027-2032) & (USD Million)

Table 52. World Triac Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Triac Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Triac Production Value by Trigger Quadrant Capability, (USD Million), 2021 & 2025 & 2032

Table 55. World Triac Production by Trigger Quadrant Capability (2021-2026) & (K Units)

Table 56. World Triac Production by Trigger Quadrant Capability (2027-2032) & (K Units)

Table 57. World Triac Production Value by Trigger Quadrant Capability (2021-2026) & (USD Million)

Table 58. World Triac Production Value by Trigger Quadrant Capability (2027-2032) & (USD Million)

Table 59. World Triac Average Price by Trigger Quadrant Capability (2021-2026) & (USD/Unit)

Table 60. World Triac Average Price by Trigger Quadrant Capability (2027-2032) & (USD/Unit)

Table 61. World Triac Production Value by Repetitive Peak Off-state Voltage, (USD Million), 2021 & 2025 & 2032

Table 62. World Triac Production by Repetitive Peak Off-state Voltage (2021-2026) & (K Units)

Table 63. World Triac Production by Repetitive Peak Off-state Voltage (2027-2032) & (K Units)

Table 64. World Triac Production Value by Repetitive Peak Off-state Voltage (2021-2026) & (USD Million)

Table 65. World Triac Production Value by Repetitive Peak Off-state Voltage (2027-2032) & (USD Million)

Table 66. World Triac Average Price by Repetitive Peak Off-state Voltage (2021-2026) & (USD/Unit)

Table 67. World Triac Average Price by Repetitive Peak Off-state Voltage (2027-2032) & (USD/Unit)

Table 68. World Triac Production Value by Maximum Junction Temperature Class, (USD Million), 2021 & 2025 & 2032

Table 69. World Triac Production by Maximum Junction Temperature Class (2021-2026) & (K Units)

Table 70. World Triac Production by Maximum Junction Temperature Class (2027-2032) & (K Units)

Table 71. World Triac Production Value by Maximum Junction Temperature Class (2021-2026) & (USD Million)

Table 72. World Triac Production Value by Maximum Junction Temperature Class (2027-2032) & (USD Million)

Table 73. World Triac Average Price by Maximum Junction Temperature Class (2021-2026) & (USD/Unit)

Table 74. World Triac Average Price by Maximum Junction Temperature Class (2027-2032) & (USD/Unit)

Table 75. World Triac Production Value by Application, (USD Million), 2021 & 2025 &

2032

Table 76. World Triac Production by Application (2021-2026) & (K Units)

Table 77. World Triac Production by Application (2027-2032) & (K Units)

Table 78. World Triac Production Value by Application (2021-2026) & (USD Million)

Table 79. World Triac Production Value by Application (2027-2032) & (USD Million)

Table 80. World Triac Average Price by Application (2021-2026) & (USD/Unit)

Table 81. World Triac Average Price by Application (2027-2032) & (USD/Unit)

Table 82. Central Semiconductor Basic Information, Manufacturing Base and Competitors

Table 83. Central Semiconductor Major Business

Table 84. Central Semiconductor Triac Product and Services

Table 85. Central Semiconductor Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Central Semiconductor Recent Developments/Updates

Table 87. Central Semiconductor Competitive Strengths & Weaknesses

Table 88. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 89. STMicroelectronics Major Business

Table 90. STMicroelectronics Triac Product and Services

Table 91. STMicroelectronics Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. STMicroelectronics Recent Developments/Updates

Table 93. STMicroelectronics Competitive Strengths & Weaknesses

Table 94. Littelfuse Basic Information, Manufacturing Base and Competitors

Table 95. Littelfuse Major Business

Table 96. Littelfuse Triac Product and Services

Table 97. Littelfuse Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Littelfuse Recent Developments/Updates

Table 99. Littelfuse Competitive Strengths & Weaknesses

Table 100. WeEn Semiconductors Basic Information, Manufacturing Base and Competitors

Table 101. WeEn Semiconductors Major Business

Table 102. WeEn Semiconductors Triac Product and Services

Table 103. WeEn Semiconductors Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. WeEn Semiconductors Recent Developments/Updates

Table 105. WeEn Semiconductors Competitive Strengths & Weaknesses

Table 106. Shindengen Electric Basic Information, Manufacturing Base and Competitors

Table 107. Shindengen Electric Major Business

- Table 108. Shindengen Electric Triac Product and Services
- Table 109. Shindengen Electric Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 110. Shindengen Electric Recent Developments/Updates
- Table 111. Shindengen Electric Competitive Strengths & Weaknesses
- Table 112. SANSHA ELECTRIC Basic Information, Manufacturing Base and Competitors
- Table 113. SANSHA ELECTRIC Major Business
- Table 114. SANSHA ELECTRIC Triac Product and Services
- Table 115. SANSHA ELECTRIC Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 116. SANSHA ELECTRIC Recent Developments/Updates
- Table 117. SANSHA ELECTRIC Competitive Strengths & Weaknesses
- Table 118. Jiangsu Jiejie Microelectronics Basic Information, Manufacturing Base and Competitors
- Table 119. Jiangsu Jiejie Microelectronics Major Business
- Table 120. Jiangsu Jiejie Microelectronics Triac Product and Services
- Table 121. Jiangsu Jiejie Microelectronics Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 122. Jiangsu Jiejie Microelectronics Recent Developments/Updates
- Table 123. Jiangsu Jiejie Microelectronics Competitive Strengths & Weaknesses
- Table 124. Yangzhou Yangjie Electronic Technology Basic Information, Manufacturing Base and Competitors
- Table 125. Yangzhou Yangjie Electronic Technology Major Business
- Table 126. Yangzhou Yangjie Electronic Technology Triac Product and Services
- Table 127. Yangzhou Yangjie Electronic Technology Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 128. Yangzhou Yangjie Electronic Technology Recent Developments/Updates
- Table 129. Yangzhou Yangjie Electronic Technology Competitive Strengths & Weaknesses
- Table 130. Jilin Sino-Microelectronics Basic Information, Manufacturing Base and Competitors
- Table 131. Jilin Sino-Microelectronics Major Business
- Table 132. Jilin Sino-Microelectronics Triac Product and Services
- Table 133. Jilin Sino-Microelectronics Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 134. Jilin Sino-Microelectronics Recent Developments/Updates
- Table 135. Jilin Sino-Microelectronics Competitive Strengths & Weaknesses

Table 136. Dongguan Huanxinwei Industrial Basic Information, Manufacturing Base and Competitors

Table 137. Dongguan Huanxinwei Industrial Major Business

Table 138. Dongguan Huanxinwei Industrial Triac Product and Services

Table 139. Dongguan Huanxinwei Industrial Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Dongguan Huanxinwei Industrial Recent Developments/Updates

Table 141. Dongguan Huanxinwei Industrial Competitive Strengths & Weaknesses

Table 142. Shenzhen HaoPin Microelectronics Basic Information, Manufacturing Base and Competitors

Table 143. Shenzhen HaoPin Microelectronics Major Business

Table 144. Shenzhen HaoPin Microelectronics Triac Product and Services

Table 145. Shenzhen HaoPin Microelectronics Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Shenzhen HaoPin Microelectronics Recent Developments/Updates

Table 147. Shenzhen HaoPin Microelectronics Competitive Strengths & Weaknesses

Table 148. Xiamen Kudom Electronics Technology Basic Information, Manufacturing Base and Competitors

Table 149. Xiamen Kudom Electronics Technology Major Business

Table 150. Xiamen Kudom Electronics Technology Triac Product and Services

Table 151. Xiamen Kudom Electronics Technology Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Xiamen Kudom Electronics Technology Recent Developments/Updates

Table 153. Xiamen Kudom Electronics Technology Competitive Strengths & Weaknesses

Table 154. Continental Device India Basic Information, Manufacturing Base and Competitors

Table 155. Continental Device India Major Business

Table 156. Continental Device India Triac Product and Services

Table 157. Continental Device India Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Continental Device India Recent Developments/Updates

Table 159. Continental Device India Competitive Strengths & Weaknesses

Table 160. Naina Semiconductor Basic Information, Manufacturing Base and Competitors

Table 161. Naina Semiconductor Major Business

- Table 162. Naina Semiconductor Triac Product and Services
- Table 163. Naina Semiconductor Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 164. Naina Semiconductor Recent Developments/Updates
- Table 165. Naina Semiconductor Competitive Strengths & Weaknesses
- Table 166. Unisonic Technologies Basic Information, Manufacturing Base and Competitors
- Table 167. Unisonic Technologies Major Business
- Table 168. Unisonic Technologies Triac Product and Services
- Table 169. Unisonic Technologies Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 170. Unisonic Technologies Recent Developments/Updates
- Table 171. Unisonic Technologies Competitive Strengths & Weaknesses
- Table 172. SemiHow Basic Information, Manufacturing Base and Competitors
- Table 173. SemiHow Major Business
- Table 174. SemiHow Triac Product and Services
- Table 175. SemiHow Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 176. SemiHow Recent Developments/Updates
- Table 177. SemiHow Competitive Strengths & Weaknesses
- Table 178. Semiware Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 179. Semiware Semiconductor Major Business
- Table 180. Semiware Semiconductor Triac Product and Services
- Table 181. Semiware Semiconductor Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 182. Semiware Semiconductor Recent Developments/Updates
- Table 183. Semiware Semiconductor Competitive Strengths & Weaknesses
- Table 184. Dongchen Electronics Basic Information, Manufacturing Base and Competitors
- Table 185. Dongchen Electronics Major Business
- Table 186. Dongchen Electronics Triac Product and Services
- Table 187. Dongchen Electronics Triac Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 188. Dongchen Electronics Recent Developments/Updates
- Table 189. Dongchen Electronics Competitive Strengths & Weaknesses
- Table 190. Global Key Players of Triac Upstream (Raw Materials)
- Table 191. Global Triac Typical Customers
- Table 192. Triac Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Triac Picture
- Figure 2. World Triac Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Triac Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Triac Production (2021-2032) & (K Units)
- Figure 5. World Triac Average Price (2021-2032) & (USD/Unit)
- Figure 6. World Triac Production Value Market Share by Region (2021-2032)
- Figure 7. World Triac Production Market Share by Region (2021-2032)
- Figure 8. North America Triac Production (2021-2032) & (K Units)
- Figure 9. Europe Triac Production (2021-2032) & (K Units)
- Figure 10. China Triac Production (2021-2032) & (K Units)
- Figure 11. Japan Triac Production (2021-2032) & (K Units)
- Figure 12. South Korea Triac Production (2021-2032) & (K Units)
- Figure 13. India Triac Production (2021-2032) & (K Units)
- Figure 14. Triac Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Triac Consumption (2021-2032) & (K Units)
- Figure 17. World Triac Consumption Market Share by Region (2021-2032)
- Figure 18. United States Triac Consumption (2021-2032) & (K Units)
- Figure 19. China Triac Consumption (2021-2032) & (K Units)
- Figure 20. Europe Triac Consumption (2021-2032) & (K Units)
- Figure 21. Japan Triac Consumption (2021-2032) & (K Units)
- Figure 22. South Korea Triac Consumption (2021-2032) & (K Units)
- Figure 23. ASEAN Triac Consumption (2021-2032) & (K Units)
- Figure 24. India Triac Consumption (2021-2032) & (K Units)
- Figure 25. Producer Shipments of Triac by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 26. Global Four-firm Concentration Ratios (CR4) for Triac Markets in 2025
- Figure 27. Global Four-firm Concentration Ratios (CR8) for Triac Markets in 2025
- Figure 28. United States VS China: Triac Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: Triac Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States VS China: Triac Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 31. United States Based Manufacturers Triac Production Market Share 2025

- Figure 32. China Based Manufacturers Triac Production Market Share 2025
- Figure 33. Rest of World Based Manufacturers Triac Production Market Share 2025
- Figure 34. World Triac Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 35. World Triac Production Value Market Share by Type in 2025
- Figure 36. 6A-10A
- Figure 37. 12A-20A
- Figure 38. More than 20A
- Figure 39. World Triac Production Market Share by Type (2021-2032)
- Figure 40. World Triac Production Value Market Share by Type (2021-2032)
- Figure 41. World Triac Average Price by Type (2021-2032) & (USD/Unit)
- Figure 42. World Triac Production Value by Trigger Quadrant Capability, (USD Million), 2021 & 2025 & 2032
- Figure 43. World Triac Production Value Market Share by Trigger Quadrant Capability in 2025
- Figure 44. 3-quadrant Triac
- Figure 45. 4-quadrant Triac
- Figure 46. World Triac Production Market Share by Trigger Quadrant Capability (2021-2032)
- Figure 47. World Triac Production Value Market Share by Trigger Quadrant Capability (2021-2032)
- Figure 48. World Triac Average Price by Trigger Quadrant Capability (2021-2032) & (USD/Unit)
- Figure 49. World Triac Production Value by Repetitive Peak Off-state Voltage, (USD Million), 2021 & 2025 & 2032
- Figure 50. World Triac Production Value Market Share by Repetitive Peak Off-state Voltage in 2025
- Figure 51. <400 V Triac
- Figure 52. >400 V to 600 V Triac
- Figure 53. >600 V to 800 V Triac
- Figure 54. >800 V to 1200 V Triac
- Figure 55. World Triac Production Market Share by Repetitive Peak Off-state Voltage (2021-2032)
- Figure 56. World Triac Production Value Market Share by Repetitive Peak Off-state Voltage (2021-2032)
- Figure 57. World Triac Average Price by Repetitive Peak Off-state Voltage (2021-2032) & (USD/Unit)
- Figure 58. World Triac Production Value by Maximum Junction Temperature Class, (USD Million), 2021 & 2025 & 2032
- Figure 59. World Triac Production Value Market Share by Maximum Junction

Temperature Class in 2025

Figure 60. 125°C class Triac

Figure 61. 150°C class Triac

Figure 62. World Triac Production Market Share by Maximum Junction Temperature Class (2021-2032)

Figure 63. World Triac Production Value Market Share by Maximum Junction Temperature Class (2021-2032)

Figure 64. World Triac Average Price by Maximum Junction Temperature Class (2021-2032) & (USD/Unit)

Figure 65. World Triac Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Triac Production Value Market Share by Application in 2025

Figure 67. Electric Fans

Figure 68. Light Dimmers

Figure 69. Household Appliances

Figure 70. Other

Figure 71. World Triac Production Market Share by Application (2021-2032)

Figure 72. World Triac Production Value Market Share by Application (2021-2032)

Figure 73. World Triac Average Price by Application (2021-2032) & (USD/Unit)

Figure 74. Triac Industry Chain

Figure 75. Triac Procurement Model

Figure 76. Triac Sales Model

Figure 77. Triac Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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