

Global Ultrasound Digital Transmit Pulsers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD15D2C53065EN.html>

Date: August 2026

Pages: 98

Price: US\$ 4,480.00 (Single User License)

ID: GD15D2C53065EN

Abstracts

The global Ultrasound Digital Transmit Pulsers market size is expected to reach \$ 943 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

An ultrasound digital transmit pulser is an electronic IC, module, or instrument that converts low-voltage digital timing and control signals into high-voltage, high-speed transmit pulses for exciting ultrasound transducers. It can generate unipolar, bipolar, three-level, five-level, return-to-zero, or programmable pulse sequences depending on system architecture. Key performance metrics include output voltage, output current, number of channels, pulse level architecture, timing jitter, channel-to-channel delay matching, waveform programmability, transmit beamforming, T/R switch integration, power consumption, and package size. These devices are used in medical ultrasound imaging, handheld ultrasound probes, nondestructive testing, sonar, ultrasonic flow measurement, acoustic microscopy, and research ultrasound platforms. Analog Devices notes that industrial ultrasound applications such as NDT, flow meters and sonar can have voltage, current and frequency requirements different from medical ultrasound, which is why flexible high-voltage pulser products are used across multiple ultrasonic systems.

Based on our research, ultrasound digital transmit pulsers should be modeled as a high-voltage mixed-signal ultrasound transmit electronics market rather than as the overall medical ultrasound or nondestructive testing equipment market. Their core function is to convert low-voltage digital timing and control signals into high-voltage, high-speed transmit pulses that excite PZT, CMUT, PMUT, or other ultrasound transducers. TI's TX7332 is a 32-channel three-level ultrasound transmitter with 32 pulser circuits, 32 T/R switches, and support for on-chip and off-chip transmit beamforming. ST's STHVUP64

is a 64-channel monolithic high-voltage, high-speed pulser with an integrated beamformer for low-power ultra-portable medical ultrasound applications.

From a technology perspective, the market is shifting from simple high-voltage pulse generation toward multi-channel integration, multi-level pulse generation, on-chip beamforming, T/R switch integration, floating power supplies, lower power consumption, and smaller packages. ST's STHV1600 generates five-level high-voltage pulses up to 100 V for multi-channel ultrasound transducer excitation, while Analog Devices' MAX14809 can operate as either an octal three-level pulser or a quad five-level pulser with active return-to-zero clamp. This indicates that leading-edge competition is moving from basic voltage capability to waveform quality, channel density, beamforming support, and system-level transmit integration.

From an application perspective, medical ultrasound remains the largest demand pool, but industrial NDT, ultrasonic flow meters, sonar, materials research, acoustic microscopy, and next-generation transducer development are meaningful growth areas. Analog Devices notes that industrial ultrasound applications such as NDT, flow meters, and sonar often have voltage, current, and frequency requirements that differ from medical ultrasound. ABLIC also positions its ultrasound high-voltage digital transmit pulsers for medical ultrasound imaging, piezoelectric transducer drive, flaw detection, and pulse waveform generator applications.

From a supply perspective, the core semiconductor suppliers are TI, STMicroelectronics, Analog Devices / Maxim, Microchip / Supertex, and ABLIC / MinebeaMitsumi. Their competitive advantages depend on high-voltage BCD or high-voltage CMOS process capability, mixed-signal integration, channel-to-channel timing consistency, high-voltage isolation, integrated protection, floating power supply design, and long design-in cycles with medical and industrial OEMs. The instrument-level market is served by BYK / JSR Ultrasonics, SONOTEC, GAMPT, Matec, RITEC, and similar pulser-receiver suppliers for NDT, research, and materials-testing customers.

Looking ahead, growth will be driven by four main trends: handheld and POCUS ultrasound requiring compact 32/64-channel low-power transmitters; medical imaging quality upgrades pushing three-level designs toward five-level and multi-level architectures with beamforming; industrial NDT and sonar requiring higher voltage, higher current, and tone-burst capability; and CMUT, PMUT, and high-density arrays requiring smaller, lower-power, programmable transmit electronics.

This report studies the global Ultrasound Digital Transmit Pulsers production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrasound Digital Transmit Pulsers 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 Ultrasound Digital Transmit Pulsers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrasound Digital Transmit Pulsers total production and demand, 2021-2032, (K Units)

Global Ultrasound Digital Transmit Pulsers total production value, 2021-2032, (USD Million)

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

Global Ultrasound Digital Transmit Pulsers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultrasound Digital Transmit Pulsers domestic production, consumption, key domestic manufacturers and share

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

Global Ultrasound Digital Transmit Pulsers production by Delivered Product Level, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultrasound Digital Transmit Pulsers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultrasound Digital Transmit Pulsers 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 Texas Instruments, STMicroelectronics, Analog Devices, Microchip Technology, ABLIC, BYK, Matec Instrument Companies, RITEC, 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 Ultrasound Digital Transmit Pulsers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Delivered Product Level, 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 Ultrasound Digital Transmit Pulsers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrasound Digital Transmit Pulsers Market, Segmentation by Delivered Product Level:

Monolithic Pulser ICs

Integrated Transmitter ICs

Evaluation Boards / Reference Modules

Board-level Pulser Modules

Standalone Pulser-Receiver Instruments

Global Ultrasound Digital Transmit Pulsers Market, Segmentation by Output Waveform Architecture:

Unipolar Pulse Output

Bipolar Two-level Output

Three-level RTZ Output

Five-level / Multi-level Output

Global Ultrasound Digital Transmit Pulsers Market, Segmentation by Channel Count:

Single to Quad-channel Products

8-channel Products

16-channel Products

32-channel Products

64-channel and Above Products

Global Ultrasound Digital Transmit Pulsers Market, Segmentation by Application:

Cart-based Medical Ultrasound

Handheld / POCUS Ultrasound

Industrial NDT and Acoustic Microscopy

Industrial Sensing / Flow / Sonar

Research and Prototype Ultrasound Systems

Companies Profiled:

Texas Instruments

STMicroelectronics

Analog Devices

Microchip Technology

ABLIC

BYK

Matec Instrument Companies

RITEC

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Ultrasound Digital Transmit Pulsers Demand (2021-2032)
- 2.2 World Ultrasound Digital Transmit Pulsers Consumption by Region
 - 2.2.1 World Ultrasound Digital Transmit Pulsers Consumption by Region (2021-2026)
 - 2.2.2 World Ultrasound Digital Transmit Pulsers Consumption Forecast by Region (2027-2032)
- 2.3 United States Ultrasound Digital Transmit Pulsers Consumption (2021-2032)
- 2.4 China Ultrasound Digital Transmit Pulsers Consumption (2021-2032)
- 2.5 Europe Ultrasound Digital Transmit Pulsers Consumption (2021-2032)
- 2.6 Japan Ultrasound Digital Transmit Pulsers Consumption (2021-2032)
- 2.7 South Korea Ultrasound Digital Transmit Pulsers Consumption (2021-2032)

2.8 ASEAN Ultrasound Digital Transmit Pulsers Consumption (2021-2032)

2.9 India Ultrasound Digital Transmit Pulsers Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Ultrasound Digital Transmit Pulsers Production Value by Manufacturer (2021-2026)

3.2 World Ultrasound Digital Transmit Pulsers Production by Manufacturer (2021-2026)

3.3 World Ultrasound Digital Transmit Pulsers Average Price by Manufacturer (2021-2026)

3.4 Ultrasound Digital Transmit Pulsers Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Ultrasound Digital Transmit Pulsers Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Ultrasound Digital Transmit Pulsers in 2025

3.5.3 Global Concentration Ratios (CR8) for Ultrasound Digital Transmit Pulsers in 2025

3.6 Ultrasound Digital Transmit Pulsers Market: Overall Company Footprint Analysis

3.6.1 Ultrasound Digital Transmit Pulsers Market: Region Footprint

3.6.2 Ultrasound Digital Transmit Pulsers Market: Company Product Type Footprint

3.6.3 Ultrasound Digital Transmit Pulsers 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: Ultrasound Digital Transmit Pulsers Production Value Comparison

4.1.1 United States VS China: Ultrasound Digital Transmit Pulsers Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Ultrasound Digital Transmit Pulsers Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Ultrasound Digital Transmit Pulsers Production Comparison

4.2.1 United States VS China: Ultrasound Digital Transmit Pulsers Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Ultrasound Digital Transmit Pulsers Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Ultrasound Digital Transmit Pulsers Consumption Comparison

4.3.1 United States VS China: Ultrasound Digital Transmit Pulsers Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Ultrasound Digital Transmit Pulsers Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Ultrasound Digital Transmit Pulsers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production (2021-2026)

4.5 China Based Ultrasound Digital Transmit Pulsers Manufacturers and Market Share

4.5.1 China Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value (2021-2026)

4.5.3 China Based Manufacturers Ultrasound Digital Transmit Pulsers Production (2021-2026)

4.6 Rest of World Based Ultrasound Digital Transmit Pulsers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production (2021-2026)

5 MARKET ANALYSIS BY DELIVERED PRODUCT LEVEL

5.1 World Ultrasound Digital Transmit Pulsers Market Size Overview by Delivered Product Level: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Delivered Product Level

- 5.2.1 Monolithic Pulsar ICs
- 5.2.2 Integrated Transmitter ICs
- 5.2.3 Evaluation Boards / Reference Modules
- 5.2.4 Board-level Pulsar Modules
- 5.2.5 Standalone Pulsar-Receiver Instruments
- 5.3 Market Segment by Delivered Product Level
 - 5.3.1 World Ultrasound Digital Transmit Pulsers Production by Delivered Product Level (2021-2032)
 - 5.3.2 World Ultrasound Digital Transmit Pulsers Production Value by Delivered Product Level (2021-2032)
 - 5.3.3 World Ultrasound Digital Transmit Pulsers Average Price by Delivered Product Level (2021-2032)

6 MARKET ANALYSIS BY OUTPUT WAVEFORM ARCHITECTURE

- 6.1 World Ultrasound Digital Transmit Pulsers Market Size Overview by Output Waveform Architecture: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Output Waveform Architecture
 - 6.2.1 Unipolar Pulse Output
 - 6.2.2 Bipolar Two-level Output
 - 6.2.3 Three-level RTZ Output
 - 6.2.4 Five-level / Multi-level Output
- 6.3 Market Segment by Output Waveform Architecture
 - 6.3.1 World Ultrasound Digital Transmit Pulsers Production by Output Waveform Architecture (2021-2032)
 - 6.3.2 World Ultrasound Digital Transmit Pulsers Production Value by Output Waveform Architecture (2021-2032)
 - 6.3.3 World Ultrasound Digital Transmit Pulsers Average Price by Output Waveform Architecture (2021-2032)

7 MARKET ANALYSIS BY CHANNEL COUNT

- 7.1 World Ultrasound Digital Transmit Pulsers Market Size Overview by Channel Count: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Channel Count
 - 7.2.1 Single to Quad-channel Products
 - 7.2.2 8-channel Products
 - 7.2.3 16-channel Products
 - 7.2.4 32-channel Products

- 7.2.5 64-channel and Above Products
- 7.3 Market Segment by Channel Count
 - 7.3.1 World Ultrasound Digital Transmit Pulsers Production by Channel Count (2021-2032)
 - 7.3.2 World Ultrasound Digital Transmit Pulsers Production Value by Channel Count (2021-2032)
 - 7.3.3 World Ultrasound Digital Transmit Pulsers Average Price by Channel Count (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Ultrasound Digital Transmit Pulsers Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Cart-based Medical Ultrasound
 - 8.2.2 Handheld / POCUS Ultrasound
 - 8.2.3 Industrial NDT and Acoustic Microscopy
 - 8.2.4 Industrial Sensing / Flow / Sonar
 - 8.2.5 Research and Prototype Ultrasound Systems
- 8.3 Market Segment by Application
 - 8.3.1 World Ultrasound Digital Transmit Pulsers Production by Application (2021-2032)
 - 8.3.2 World Ultrasound Digital Transmit Pulsers Production Value by Application (2021-2032)
 - 8.3.3 World Ultrasound Digital Transmit Pulsers Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Texas Instruments
 - 9.1.1 Texas Instruments Details
 - 9.1.2 Texas Instruments Major Business
 - 9.1.3 Texas Instruments Ultrasound Digital Transmit Pulsers Product and Services
 - 9.1.4 Texas Instruments Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Texas Instruments Recent Developments/Updates
 - 9.1.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.2 STMicroelectronics
 - 9.2.1 STMicroelectronics Details
 - 9.2.2 STMicroelectronics Major Business

- 9.2.3 STMicroelectronics Ultrasound Digital Transmit Pulsers Product and Services
- 9.2.4 STMicroelectronics Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 STMicroelectronics Recent Developments/Updates
- 9.2.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.3 Analog Devices
 - 9.3.1 Analog Devices Details
 - 9.3.2 Analog Devices Major Business
 - 9.3.3 Analog Devices Ultrasound Digital Transmit Pulsers Product and Services
 - 9.3.4 Analog Devices Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Analog Devices Recent Developments/Updates
 - 9.3.6 Analog Devices Competitive Strengths & Weaknesses
- 9.4 Microchip Technology
 - 9.4.1 Microchip Technology Details
 - 9.4.2 Microchip Technology Major Business
 - 9.4.3 Microchip Technology Ultrasound Digital Transmit Pulsers Product and Services
 - 9.4.4 Microchip Technology Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Microchip Technology Recent Developments/Updates
 - 9.4.6 Microchip Technology Competitive Strengths & Weaknesses
- 9.5 ABLIC
 - 9.5.1 ABLIC Details
 - 9.5.2 ABLIC Major Business
 - 9.5.3 ABLIC Ultrasound Digital Transmit Pulsers Product and Services
 - 9.5.4 ABLIC Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ABLIC Recent Developments/Updates
 - 9.5.6 ABLIC Competitive Strengths & Weaknesses
- 9.6 BYK
 - 9.6.1 BYK Details
 - 9.6.2 BYK Major Business
 - 9.6.3 BYK Ultrasound Digital Transmit Pulsers Product and Services
 - 9.6.4 BYK Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 BYK Recent Developments/Updates
 - 9.6.6 BYK Competitive Strengths & Weaknesses
- 9.7 Matec Instrument Companies
 - 9.7.1 Matec Instrument Companies Details

9.7.2 Matec Instrument Companies Major Business

9.7.3 Matec Instrument Companies Ultrasound Digital Transmit Pulsers Product and Services

9.7.4 Matec Instrument Companies Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Matec Instrument Companies Recent Developments/Updates

9.7.6 Matec Instrument Companies Competitive Strengths & Weaknesses

9.8 RITEC

9.8.1 RITEC Details

9.8.2 RITEC Major Business

9.8.3 RITEC Ultrasound Digital Transmit Pulsers Product and Services

9.8.4 RITEC Ultrasound Digital Transmit Pulsers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 RITEC Recent Developments/Updates

9.8.6 RITEC Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Ultrasound Digital Transmit Pulsers Industry Chain

10.2 Ultrasound Digital Transmit Pulsers Upstream Analysis

10.2.1 Ultrasound Digital Transmit Pulsers Core Raw Materials

10.2.2 Main Manufacturers of Ultrasound Digital Transmit Pulsers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Ultrasound Digital Transmit Pulsers Production Mode

10.6 Ultrasound Digital Transmit Pulsers Procurement Model

10.7 Ultrasound Digital Transmit Pulsers Industry Sales Model and Sales Channels

10.7.1 Ultrasound Digital Transmit Pulsers Sales Model

10.7.2 Ultrasound Digital Transmit Pulsers Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Ultrasound Digital Transmit Pulsers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Ultrasound Digital Transmit Pulsers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Ultrasound Digital Transmit Pulsers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Region (2021-2026)

Table 5. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Region (2027-2032)

Table 6. World Ultrasound Digital Transmit Pulsers Production by Region (2021-2026) & (K Units)

Table 7. World Ultrasound Digital Transmit Pulsers Production by Region (2027-2032) & (K Units)

Table 8. World Ultrasound Digital Transmit Pulsers Production Market Share by Region (2021-2026)

Table 9. World Ultrasound Digital Transmit Pulsers Production Market Share by Region (2027-2032)

Table 10. World Ultrasound Digital Transmit Pulsers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Ultrasound Digital Transmit Pulsers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Ultrasound Digital Transmit Pulsers Major Market Trends

Table 13. World Ultrasound Digital Transmit Pulsers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Ultrasound Digital Transmit Pulsers Consumption by Region (2021-2026) & (K Units)

Table 15. World Ultrasound Digital Transmit Pulsers Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Ultrasound Digital Transmit Pulsers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Ultrasound Digital Transmit Pulsers Producers in 2025

Table 18. World Ultrasound Digital Transmit Pulsers Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Ultrasound Digital Transmit Pulsers Producers in 2025

Table 20. World Ultrasound Digital Transmit Pulsers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Ultrasound Digital Transmit Pulsers Company Evaluation Quadrant

Table 22. World Ultrasound Digital Transmit Pulsers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ultrasound Digital Transmit Pulsers Production Site of Key Manufacturer

Table 24. Ultrasound Digital Transmit Pulsers Market: Company Product Type Footprint

Table 25. Ultrasound Digital Transmit Pulsers Market: Company Product Application Footprint

Table 26. Ultrasound Digital Transmit Pulsers Competitive Factors

Table 27. Ultrasound Digital Transmit Pulsers New Entrant and Capacity Expansion Plans

Table 28. Ultrasound Digital Transmit Pulsers Mergers & Acquisitions Activity

Table 29. United States VS China Ultrasound Digital Transmit Pulsers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Ultrasound Digital Transmit Pulsers Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Ultrasound Digital Transmit Pulsers Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share (2021-2026)

Table 37. China Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ultrasound Digital Transmit Pulsers Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share (2021-2026)

Table 42. Rest of World Based Ultrasound Digital Transmit Pulsers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share (2021-2026)

Table 47. World Ultrasound Digital Transmit Pulsers Production Value by Delivered Product Level, (USD Million), 2021 & 2025 & 2032

Table 48. World Ultrasound Digital Transmit Pulsers Production by Delivered Product Level (2021-2026) & (K Units)

Table 49. World Ultrasound Digital Transmit Pulsers Production by Delivered Product Level (2027-2032) & (K Units)

Table 50. World Ultrasound Digital Transmit Pulsers Production Value by Delivered Product Level (2021-2026) & (USD Million)

Table 51. World Ultrasound Digital Transmit Pulsers Production Value by Delivered Product Level (2027-2032) & (USD Million)

Table 52. World Ultrasound Digital Transmit Pulsers Average Price by Delivered Product Level (2021-2026) & (US\$/Unit)

Table 53. World Ultrasound Digital Transmit Pulsers Average Price by Delivered Product Level (2027-2032) & (US\$/Unit)

Table 54. World Ultrasound Digital Transmit Pulsers Production Value by Output Waveform Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Ultrasound Digital Transmit Pulsers Production by Output Waveform Architecture (2021-2026) & (K Units)

Table 56. World Ultrasound Digital Transmit Pulsers Production by Output Waveform Architecture (2027-2032) & (K Units)

Table 57. World Ultrasound Digital Transmit Pulsers Production Value by Output Waveform Architecture (2021-2026) & (USD Million)

Table 58. World Ultrasound Digital Transmit Pulsers Production Value by Output Waveform Architecture (2027-2032) & (USD Million)

Table 59. World Ultrasound Digital Transmit Pulsers Average Price by Output Waveform Architecture (2021-2026) & (US\$/Unit)

Table 60. World Ultrasound Digital Transmit Pulsers Average Price by Output Waveform Architecture (2027-2032) & (US\$/Unit)

Table 61. World Ultrasound Digital Transmit Pulsers Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Table 62. World Ultrasound Digital Transmit Pulsers Production by Channel Count (2021-2026) & (K Units)

Table 63. World Ultrasound Digital Transmit Pulsers Production by Channel Count (2027-2032) & (K Units)

Table 64. World Ultrasound Digital Transmit Pulsers Production Value by Channel Count (2021-2026) & (USD Million)

Table 65. World Ultrasound Digital Transmit Pulsers Production Value by Channel Count (2027-2032) & (USD Million)

Table 66. World Ultrasound Digital Transmit Pulsers Average Price by Channel Count (2021-2026) & (US\$/Unit)

Table 67. World Ultrasound Digital Transmit Pulsers Average Price by Channel Count (2027-2032) & (US\$/Unit)

Table 68. World Ultrasound Digital Transmit Pulsers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ultrasound Digital Transmit Pulsers Production by Application (2021-2026) & (K Units)

Table 70. World Ultrasound Digital Transmit Pulsers Production by Application (2027-2032) & (K Units)

Table 71. World Ultrasound Digital Transmit Pulsers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ultrasound Digital Transmit Pulsers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ultrasound Digital Transmit Pulsers Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Ultrasound Digital Transmit Pulsers Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 76. Texas Instruments Major Business

Table 77. Texas Instruments Ultrasound Digital Transmit Pulsers Product and Services

Table 78. Texas Instruments Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Texas Instruments Recent Developments/Updates

Table 80. Texas Instruments Competitive Strengths & Weaknesses

Table 81. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 82. STMicroelectronics Major Business

Table 83. STMicroelectronics Ultrasound Digital Transmit Pulsers Product and Services

Table 84. STMicroelectronics Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. STMicroelectronics Recent Developments/Updates

Table 86. STMicroelectronics Competitive Strengths & Weaknesses

Table 87. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 88. Analog Devices Major Business

Table 89. Analog Devices Ultrasound Digital Transmit Pulsers Product and Services

Table 90. Analog Devices Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Analog Devices Recent Developments/Updates

Table 92. Analog Devices Competitive Strengths & Weaknesses

Table 93. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 94. Microchip Technology Major Business

Table 95. Microchip Technology Ultrasound Digital Transmit Pulsers Product and Services

Table 96. Microchip Technology Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Microchip Technology Recent Developments/Updates

Table 98. Microchip Technology Competitive Strengths & Weaknesses

Table 99. ABLIC Basic Information, Manufacturing Base and Competitors

Table 100. ABLIC Major Business

Table 101. ABLIC Ultrasound Digital Transmit Pulsers Product and Services

Table 102. ABLIC Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ABLIC Recent Developments/Updates

Table 104. ABLIC Competitive Strengths & Weaknesses

Table 105. BYK Basic Information, Manufacturing Base and Competitors

Table 106. BYK Major Business

Table 107. BYK Ultrasound Digital Transmit Pulsers Product and Services

Table 108. BYK Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. BYK Recent Developments/Updates

Table 110. BYK Competitive Strengths & Weaknesses

Table 111. Matec Instrument Companies Basic Information, Manufacturing Base and Competitors

Table 112. Matec Instrument Companies Major Business

Table 113. Matec Instrument Companies Ultrasound Digital Transmit Pulsers Product and Services

Table 114. Matec Instrument Companies Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Matec Instrument Companies Recent Developments/Updates

Table 116. Matec Instrument Companies Competitive Strengths & Weaknesses

Table 117. RITEC Basic Information, Manufacturing Base and Competitors

Table 118. RITEC Major Business

Table 119. RITEC Ultrasound Digital Transmit Pulsers Product and Services

Table 120. RITEC Ultrasound Digital Transmit Pulsers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. RITEC Recent Developments/Updates

Table 122. RITEC Competitive Strengths & Weaknesses

Table 123. Global Key Players of Ultrasound Digital Transmit Pulsers Upstream (Raw Materials)

Table 124. Global Ultrasound Digital Transmit Pulsers Typical Customers

Table 125. Ultrasound Digital Transmit Pulsers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ultrasound Digital Transmit Pulsers Picture

Figure 2. World Ultrasound Digital Transmit Pulsers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Ultrasound Digital Transmit Pulsers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 5. World Ultrasound Digital Transmit Pulsers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Region (2021-2032)

Figure 7. World Ultrasound Digital Transmit Pulsers Production Market Share by Region (2021-2032)

Figure 8. North America Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 9. Europe Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 10. China Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 11. Japan Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 12. South Korea Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 13. Taiwan China Ultrasound Digital Transmit Pulsers Production (2021-2032) & (K Units)

Figure 14. Ultrasound Digital Transmit Pulsers Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 17. World Ultrasound Digital Transmit Pulsers Consumption Market Share by Region (2021-2032)

Figure 18. United States Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 19. China Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 20. Europe Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K

Units)

Figure 21. Japan Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 22. South Korea Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 24. India Ultrasound Digital Transmit Pulsers Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Ultrasound Digital Transmit Pulsers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Ultrasound Digital Transmit Pulsers Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Ultrasound Digital Transmit Pulsers Markets in 2025

Figure 28. United States VS China: Ultrasound Digital Transmit Pulsers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Ultrasound Digital Transmit Pulsers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Ultrasound Digital Transmit Pulsers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share 2025

Figure 32. China Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Ultrasound Digital Transmit Pulsers Production Market Share 2025

Figure 34. World Ultrasound Digital Transmit Pulsers Production Value by Delivered Product Level, (USD Million), 2021 & 2025 & 2032

Figure 35. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Delivered Product Level in 2025

Figure 36. Monolithic Pulser ICs

Figure 37. Integrated Transmitter ICs

Figure 38. Evaluation Boards / Reference Modules

Figure 39. Board-level Pulser Modules

Figure 40. Standalone Pulser-Receiver Instruments

Figure 41. World Ultrasound Digital Transmit Pulsers Production Market Share by Delivered Product Level (2021-2032)

Figure 42. World Ultrasound Digital Transmit Pulsers Production Value Market Share by

Delivered Product Level (2021-2032)

Figure 43. World Ultrasound Digital Transmit Pulsers Average Price by Delivered Product Level (2021-2032) & (US\$/Unit)

Figure 44. World Ultrasound Digital Transmit Pulsers Production Value by Output Waveform Architecture, (USD Million), 2021 & 2025 & 2032

Figure 45. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Output Waveform Architecture in 2025

Figure 46. Unipolar Pulse Output

Figure 47. Bipolar Two-level Output

Figure 48. Three-level RTZ Output

Figure 49. Five-level / Multi-level Output

Figure 50. World Ultrasound Digital Transmit Pulsers Production Market Share by Output Waveform Architecture (2021-2032)

Figure 51. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Output Waveform Architecture (2021-2032)

Figure 52. World Ultrasound Digital Transmit Pulsers Average Price by Output Waveform Architecture (2021-2032) & (US\$/Unit)

Figure 53. World Ultrasound Digital Transmit Pulsers Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Figure 54. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Channel Count in 2025

Figure 55. Single to Quad-channel Products

Figure 56. 8-channel Products

Figure 57. 16-channel Products

Figure 58. 32-channel Products

Figure 59. 64-channel and Above Products

Figure 60. World Ultrasound Digital Transmit Pulsers Production Market Share by Channel Count (2021-2032)

Figure 61. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Channel Count (2021-2032)

Figure 62. World Ultrasound Digital Transmit Pulsers Average Price by Channel Count (2021-2032) & (US\$/Unit)

Figure 63. World Ultrasound Digital Transmit Pulsers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 64. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Application in 2025

Figure 65. Cart-based Medical Ultrasound

Figure 66. Handheld / POCUS Ultrasound

Figure 67. Industrial NDT and Acoustic Microscopy

Figure 68. Industrial Sensing / Flow / Sonar

Figure 69. Research and Prototype Ultrasound Systems

Figure 70. World Ultrasound Digital Transmit Pulsers Production Market Share by Application (2021-2032)

Figure 71. World Ultrasound Digital Transmit Pulsers Production Value Market Share by Application (2021-2032)

Figure 72. World Ultrasound Digital Transmit Pulsers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Ultrasound Digital Transmit Pulsers Industry Chain

Figure 74. Ultrasound Digital Transmit Pulsers Procurement Model

Figure 75. Ultrasound Digital Transmit Pulsers Sales Model

Figure 76. Ultrasound Digital Transmit Pulsers Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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