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Global Quartz Crystal Microbalance Biosensor Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GEA46E05EFADEN.html
Date: September 2026
Pages: 137
Price: US$ 4,480.00 (Single User License)
ID: GEA46E05EFADEN

Abstracts

The global Quartz Crystal Microbalance Biosensor market size is expected to reach $ 31.92 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Quartz Crystal Microbalance Biosensors are QCM- or QCM-D-based analytical sensing systems used for real-time, label-free detection and characterization of biological interactions at quartz sensor surfaces. The systems monitor resonance-frequency changes caused by mass adsorption and, in advanced configurations, dissipation or impedance changes associated with the viscoelastic properties of adsorbed layers. Applications include protein binding, immunosensing, DNA and nucleic-acid interactions, biomaterial characterization, cell adhesion, biofilm analysis, drug-delivery research, and biopharmaceutical surface-interaction studies. A system typically includes a QCM measurement unit, quartz sensor holder, liquid or flow cell, temperature control, data-acquisition electronics, software, and optional fluidics or electrochemical modules. Industrial thin-film deposition monitors, generic crystal oscillators, standalone quartz crystals, and QCM systems used exclusively for non-biological applications are excluded.The upstream industry includes AT-cut quartz resonators, gold and other electrode coatings, surface-functionalization materials, oscillator electronics, frequency counters, impedance-analysis electronics, temperature-control components, microfluidic cells, pumps, valves, tubing, precision connectors, controllers, and data-analysis software. Midstream manufacturers integrate quartz sensing, resonance measurement, dissipation or impedance analysis, fluid handling, temperature control, biosensor surface compatibility, automation, and analytical software into complete QCM biosensing platforms. Downstream customers include universities, pharmaceutical and biotechnology companies, biomaterials laboratories, medical research institutes, biosensor developers, food and environmental laboratories, contract research

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organizations, and surface-science laboratories.

The Quartz Crystal Microbalance Biosensor market is a specialized label-free biosensing segment positioned below large optical biosensor markets in overall scale but supported by distinctive advantages in surface-sensitive mass and viscoelastic measurements. Biopharmaceutical formulation, protein adsorption, biomaterials, cell-surface interactions, biofilms, and biosensor development provide the main demand base. Premium QCM-D systems increasingly emphasize automation, parallel channels, integrated fluidics, improved temperature stability, and higher throughput, while lower-cost QCM platforms are expanding access in university laboratories and early-stage biosensor research. This creates a strongly segmented pricing structure ranging from a few thousand dollars for research-oriented systems to more than US$200,000 for highly automated QCM-D platforms. Competition from SPR, BLI and other label-free optical techniques limits overall market expansion, but QCM-D retains advantages where hydrated mass, structural changes, and viscoelastic information are important.In 2025, global Quartz Crystal Microbalance Biosensor system production reached approximately 0.63 thousand systems, with an estimated global average selling price of approximately US$30,000 per system. The estimated gross profit margin of major suppliers ranged from 35% to 55%.

Report Scope

This report studies the global Quartz Crystal Microbalance Biosensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quartz Crystal Microbalance Biosensor 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 Quartz Crystal Microbalance Biosensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quartz Crystal Microbalance Biosensor total production and demand, 2021-2032, (Units)

Global Quartz Crystal Microbalance Biosensor total production value,

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2021-2032, (USD Million)

Global Quartz Crystal Microbalance Biosensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Quartz Crystal Microbalance Biosensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Quartz Crystal Microbalance Biosensor domestic production, consumption, key domestic manufacturers and share

Global Quartz Crystal Microbalance Biosensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Quartz Crystal Microbalance Biosensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Quartz Crystal Microbalance Biosensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Quartz Crystal Microbalance Biosensor 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 Biolin Scientific AB, Attana AB, Advanced Wave Sensors, S.L., Semilab Semiconductor Physics Laboratory Co. Ltd., 3T analytik GmbH & Co. KG, Novaetech S.r.l., BioNavis Ltd, ElbaTech S.r.l., Stanford Research Systems, Inc., Gamry Instruments, Inc., 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 Quartz Crystal Microbalance Biosensor market

Detailed Segmentation:

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Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/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 Quartz Crystal Microbalance Biosensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Quartz Crystal Microbalance Biosensor Market, Segmentation by Type:

Metal Biosensors

Oxide Biosensors

Carbide Biosensors

Polymer Biosensors

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Others

Global Quartz Crystal Microbalance Biosensor Market, Segmentation by Maximum Simultaneous Quartz Sensor Measurement Channel Count:

Single-Channel System

Two-to-Four-Channel System

Five-or-More-Channel System

Global Quartz Crystal Microbalance Biosensor Market, Segmentation by Integrated Active Temperature Control Capability:

Integrated Active Temperature Control System

System Without Integrated Active Temperature Control

Global Quartz Crystal Microbalance Biosensor Market, Segmentation by Application:

Pharmaceutical and Biopharmaceutical Manufacturing Sector

Medical Device and In Vitro Diagnostics Manufacturing Sector

Food and Agricultural Biotechnology Sector

Contract Research and Analytical Testing Services Sector

Academic Research Institutions

Government and Public Research Institutions

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Companies Profiled:

Biolin Scientific AB

Attana AB

Advanced Wave Sensors, S.L.

Semilab Semiconductor Physics Laboratory Co. Ltd.

3T analytik GmbH & Co. KG

Novaetech S.r.l.

BioNavis Ltd

ElbaTech S.r.l.

Stanford Research Systems, Inc.

Gamry Instruments, Inc.

CH Instruments, Inc.

Invitrometrix Corporation

Piezo Parts Co., Ltd.

SEIKO EG&G CO., LTD.

NIHON DEMPA KOGYO CO., LTD.

Beijing Boinst Technology Co. Ltd.

Key Questions Answered

1. How big is the global Quartz Crystal Microbalance Biosensor market?

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2. What is the demand of the global Quartz Crystal Microbalance Biosensor market?
3. What is the year over year growth of the global Quartz Crystal Microbalance Biosensor market?
4. What is the total value of the global Quartz Crystal Microbalance Biosensor market?
5. Who are the Major Players in the global Quartz Crystal Microbalance Biosensor market?
6. What are the growth factors driving the market demand?

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