

Global Vaccine Microarray Patches (VMAPs) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G7D78D849E19EN.html>

Date: August 2026

Pages: 131

Price: US\$ 3,480.00 (Single User License)

ID: G7D78D849E19EN

Abstracts

According to our (Global Info Research) latest study, the global Vaccine Microarray Patches (VMAPs) market size was valued at US\$ 37.87 million in 2025 and is forecast to a readjusted size of US\$ 234 million by 2032 with a CAGR of 30.1% during review period.

In 2025, global sales of Vaccine Microarray Patches (VMAPs) reached approximately 16 million pcs, with an average market price of about USD 2.30 pc, an annual production capacity of roughly 2.15 million pcs, and an industry-average gross margin of approximately 40%.

Vaccine Microarray Patches (VMAPs) are integrated vaccine dosage forms and delivery systems comprising arrays of microscopic projections, needles or cone-shaped structures mounted on a patch substrate and designed to place vaccine antigens, adjuvants, nucleic-acid constructs or other immunologically active components into the epidermal or superficial dermal layers of the skin. Vaccine loading may be achieved through dry coating, incorporation into dissolvable or biodegradable polymers, detachable tips, reservoir-assisted delivery or other precision formulation and deposition techniques. A complete VMAP product may include the microarray, vaccine formulation, adhesive or backing layer, protective packaging and a manual or spring-assisted single-use applicator. Its critical manufacturing and performance attributes include projection geometry, mechanical strength, vaccine loading uniformity, insertion reliability, dissolution or release time, antigen stability, sterility, residual dose, application feedback and compatibility with scalable production. VMAPs are intended to provide rapid and reproducible cutaneous vaccination while reducing dependence on conventional needles and syringes, sharps disposal and highly trained vaccinators. Their principal

prospective uses include routine childhood immunisation, supplementary immunisation campaigns, seasonal adult vaccination, outbreak response, pandemic preparedness and delivery in settings where cold-chain capacity, healthcare personnel or access to fixed vaccination sites is constrained.

Vaccine Microarray Patches (VMAPs) should be viewed as integrated vaccine-device combination products rather than as a simple extension of conventional transdermal patches or cosmetic microneedles. The relevant industry boundary includes vaccine-loaded arrays, formulation and loading processes, application devices, clinical or pilot manufacturing and directly associated contract development and manufacturing services. It does not extend to ordinary intradermal syringes, needle-free jet injectors, unmedicated microneedle devices or vaccine antigen suppliers that have no responsibility for the patch itself. The most advanced public-health use case remains measles-rubella vaccination. WHO pipeline assessments identify Micron Biomedical and Vaxxas as the two principal MR-MAP developers with human clinical programmes, while QuadMedicine has advanced a hepatitis B microneedle vaccine into human investigation and a broader group of companies is working on influenza, rotavirus, COVID-19, nucleic-acid and multivalent vaccine candidates. Consequently, the 2025 and 2026 market cannot be interpreted as a conventional commercial vaccine market measured by approved doses sold. Current economic activity is largely composed of sponsored development programmes, clinical-patch supply, formulation work, technology licensing, engineering batches and manufacturing scale-up. Under a strict approved-product sales definition, the market remains effectively pre-commercial; under the adopted industry-economic-activity definition, it is measurable but still small and highly dependent on project timing.

Demand is likely to emerge first where the operational burden of needle-and-syringe vaccination is greatest. Measles-rubella campaigns, hepatitis B birth-dose delivery, seasonal influenza, outbreak response and immunisation in remote or resource-constrained settings offer clearer early value propositions than immediate replacement of all routine injections. The commercial case will depend on more than immunogenicity. Procurers and regulators will evaluate total delivered cost, residual vaccine dose, application success, thermostability, packaging density, waste handling, user training and the ability to manufacture hundreds of millions of consistent units. From a technology perspective, solid-coated high-density arrays can provide very rapid delivery but require precise coating and reproducible application forces; dissolving patches eliminate residual sharps but face formulation, moisture and payload constraints; detachable-tip and programmed-release designs may enable prime-boost delivery from a single application but add manufacturing and regulatory complexity. The market's

medium-term growth therefore depends on regulatory de-risking and manufacturing performance rather than on scientific novelty alone. Gavi planning assumptions place initial MR-MAP licensure and WHO prequalification around 2030, making the second half of the forecast period the likely point at which commercial procurement could begin to contribute meaningfully. Before that transition, investment will remain concentrated in clinical validation, dedicated facilities, quality systems, applicator design and partnerships between vaccine owners and MAP manufacturers.

This report is a detailed and comprehensive analysis for global Vaccine Microarray Patches (VMAPs) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vaccine Microarray Patches (VMAPs) market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Microarray Patches (VMAPs) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Microarray Patches (VMAPs) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Microarray Patches (VMAPs) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Vaccine Microarray Patches (VMAPs)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Vaccine Microarray Patches (VMAPs) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vaxxas Pty Ltd, Micron Biomedical, Inc., QuadMedicine, Inc., Inventprise, LLC, Kindeva Drug Delivery, LTS Lohmann Therapie-Systeme AG, RAPHAS Co., Ltd., WCC BIOMEDICAL CO., LTD., Gylden Pharma Limited, Shenzhen BioQingLam Biotechnology Co., Ltd., etc.

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

Market Segmentation

Vaccine Microarray Patches (VMAPs) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Dissolving

Non-dissolving

Market segment by Microneedle Material

Hyaluronic Acid

Taurine

Triple-helical Collagen

Market segment by Form of Use

Patches

Direct Topical

Market segment by Application

Routine Childhood Immunization

Adolescent / Pre-adolescent Prevention

Travel / Endemic Exposure / Post-exposure

Respiratory Vaccines with Recurring Demand

Outbreak / Pandemic Preparedness

Major players covered

Vaxxas Pty Ltd

Micron Biomedical, Inc.

QuadMedicine, Inc.

Inventprise, LLC

Kindeva Drug Delivery

LTS Lohmann Therapie-Systeme AG

RAPHAS Co., Ltd.

WCC BIOMEDICAL CO., LTD.

Gylden Pharma Limited

Shenzhen BioQingLam Biotechnology Co., Ltd.

CeraVx B.V.

Verndari, Inc.

MEDRx Co., Ltd.

Advaccine Biopharmaceuticals Suzhou Co., Ltd.

Youwe (Zhuhai) Biotechnology Co., Ltd.

CosMED Pharmaceutical Co., Ltd.

SingleTimeMicroneedles, Inc.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vaccine Microarray Patches (VMAPs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vaccine Microarray Patches (VMAPs), with price, sales quantity, revenue, and global market share of Vaccine Microarray

Patches (VMAPs) from 2021 to 2026.

Chapter 3, the Vaccine Microarray Patches (VMAPs) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vaccine Microarray Patches (VMAPs) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Vaccine Microarray Patches (VMAPs) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vaccine Microarray Patches (VMAPs).

Chapter 14 and 15, to describe Vaccine Microarray Patches (VMAPs) sales channel, distributors, customers, research findings and conclusion.

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