

Envelope Tracking Chip Market By Technology (Cellular Communications, Wireless Communications, and Satellite Communications), Application (Smart Phones, Wearable Devices, and Others), and End User (Consumer Electronics, Space and Aviation, Automotive, Telecommunications, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global envelope tracking chips market size was valued at \$1.57 billion in 2019, and is projected to reach \$3.15 billion by 2027, growing at a CAGR of 9.6% from 2020 to 2027. Envelope Tracking is a power supply technique that is used to adjust the converter voltage in order to improve the efficiency of a power amplifier, which is used in wireless systems. In envelope tracking technique RF signal's amplitude envelope is tracked and the bias voltage was adjusted according to the results in amplitude, this helps in operating power amplifier with maximum efficiency at any instantaneous power level. The recent cellular communications such as W-CDMA, HSPA+, and LTE, operates its signal waveforms with more extreme “peaks” and “valleys”, unlike GSM, which maintains continuous waveform throughout the operation. Recent cellular technologies experience continuous deflection in waveforms, so, here the requirement of envelope tracking technique was required in order to bring out maximum efficiency.

The global envelope tracking chips market is anticipated to witness significant growth over the forecast period. Factors such as better signal coverage, reduced heat dissipation, and increased battery life drive the growth of envelope tracking chips market. However, requirement of high bandwidth and complex architecture for

designing ET module is a major restraint to the global envelope tracking chips industry. In addition, increase in adoption of advance technologies in the field of telecom sector is expected to create opportunities for envelope tracking chips industry.

The global envelope tracking chips market is segmented into technology, application, end user, and region. By technology, the market is segmented into cellular communications, wireless communications, and satellite communications. Based on application, the market is classified into smart phones, wearable devices, and others. Depending on end user, the market is segregated into consumer electronics, space and aviation, automotive, telecommunications, and others.

Region wise, the envelope tracking chips market trends are analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). The key players operating in the market include as Analog Devices, Inc., Efficient Power Conversion Corporation, Maxim Integrated, MediaTek, Qorvo, Qualcomm, Inc., R2 Semiconductor, Inc., Samsung, Skyworks Solutions, Inc., and Texas Instruments.

Key Market Segments

By Technology

Cellular Communications

Wireless Communications

Satellite Communications

By Application

Smart Phones

Wearable Devices

Others

By End User

Consumer Electronics

Space and Aviation

Automotive

Telecommunications

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Players

Analog Devices, Inc.

Efficient Power Conversion Corporation

Maxim Integrated

MediaTek

Qorvo

Qualcomm, Inc.

R2 Semiconductor, Inc.

SAMSUNG

Skyworks Solutions, Inc.

Texas Instruments

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