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Application Processor Market Report by Device Type (Mobile Phones, PC Tablets and E-Readers, Smart Wearables, Automotive ADAS and Infotainment Devices), Core Type (Octa-Core, Hexa-Core, Quad-Core, Dual-Core, Single-Core), and Region 2024-2032

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Abstracts

The global application processor market size reached US$ 36.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 49.5 Billion by 2032, exhibiting a growth rate (CAGR) of 3.3% during 2024-2032.

An application processor is a system on a chip (SoC) processor which is responsible for the optimal functioning of applications running in a mobile operating system. It is used in a variety of electronic devices including tablets, e-readers, smartphones, netbooks, gaming consoles and automotive navigation devices. With the support of an application processor, several applications can run in different operating systems such as Android, iOS, Windows CE or Symbian. It also has the capability of delivering specialties such as graphics processing unit, memory controller and multimedia decoding units. As the technology continues to evolve and become more data-centric, application processors have advanced from the first Intel 8086 processor to the latest 8th Gen Intel Core i7-8086K processor which can deliver up to 5 GHz.

With the growing base of tech-savvy consumers, there has been a rise in the adoption of smartphones. This has led to an escalation in the demand for smartphones with high-end graphics. As a result, an increasing number of mobile phones are being produced with advanced application processors. Samsung has recently designed a new line of the premium application processor, Exynos 9 Series 9810, especially for artificial intelligence (AI) applications in smartphones, tablets, and other media devices. Moreover, the leading application processor companies are developing and updating

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their processors. For instance, Qualcomm has launched Snapdragon mobile application processors which offer benefits including fast charging, long battery life, enhanced camera functionality, immersive AR and VR experiences, superior connectivity, and the latest security solutions.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global application processor market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on device type and core type.

Breakup by Device Type:

Mobile Phones
PC Tablets and E-Readers
Smart Wearables
Automotive ADAS and Infotainment Devices

Breakup by Core Type:

Octa-Core
Hexa-Core
Quad-Core
Dual-Core
Single-Core

Breakup by Region:

Asia Pacific
North America
Europe
Middle East and Africa
Latin America
Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the key players being Qualcomm, Apple, Mediatek, Samsung Electronics, Xiaomi, Hisilicon Technologies, Spreadtrum Communications, NXP Semiconductors, Texas Instruments, Nvidia, Toshiba, Renesas Electronics, Ingenic Semiconductor, LG Electronics, Garmin, etc.

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Key Questions Answered in This Report

1. What was the size of the global application processor market in 2023?
2. What is the expected growth rate of the global application processor market during 2024-2032?
3. What are the key factors driving the global application processor market?
4. What has been the impact of COVID-19 on the global application processor market?
5. What is the breakup of the global application processor market based on the device type?
6. What is the breakup of the global application processor market based on the core type?
7. What are the key regions in the global application processor market?
8. Who are the key players/companies in the global application processor market?

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