

North America Vision Processing Unit Market (2019-2025)

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Abstracts

The North America Vision Processing Unit Market would witness market growth of 16.7% CAGR during the forecast period (2019-2025).

The vision processing unit is closely related to a video processing unit that is used with convolutional neural networks. The video processing unit is a certain type of graphics processing. On the contrary, the vision processing unit is more suited to run different types of machinery vision algorithms. Specific resources for the visual processing of the camera can be used for these tools. They are especially oriented towards image processing like video processing units. Some of these devices are defined as "low power and high performance" and can be connected to devices that enable programmable use.

The need for real-time monitoring and high processing capabilities is driven by increased awareness of ensuring public safety through effective monitoring. VPUs perform a crucial part in evaluating the pictures and videos caught to provide precautionary activities with flawless information. North America has been embracing AI-enabled products as an early adopter of new innovations in the current IoT device infrastructure. The region has enormous growth potential for high quality products such as smartphones and the use of drones and cameras for surveillance applications. In addition, the increase in the use of VPUs in unmanned aerial vehicles (UAVs), security and surveillance cameras, and cars, among other fields of implementation, is pushing market growth in North America.

Based on Fabrication Process, the market is segmented into >16–28 NM Node and Equals to 16 NM Node. Based on Application, the market is segmented into Smartphones, ADAS, Drones, Cameras and Others. Based on End User, the market is

segmented into Consumer Electronics, Automotive, Security & Surveillance and Others. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Samsung Electronics Co. Ltd., Intel Corporation, NXP Semiconductors N.V., Cadence Design Systems, Inc., MediaTek, Inc., Inuitive Ltd., Synopsys, Inc., Verisilicon Holdings Co., Ltd., Lattice Semiconductor Corporation and Google, Inc.

Scope of the Study

Market Segmentation:

By Fabrication Process

>16–28 NM Node

Equals to 16 NM Node

By Application

Smartphones

ADAS

Drones

Cameras

Others

By End User

Consumer Electronics

Automotive

Security and Surveillance

Others

By Country

US

Canada

Mexico

Rest of North America

Companies Profiled

Samsung Electronics Co. Ltd.

Intel Corporation

NXP Semiconductors N.V.

Cadence Design Systems, Inc.

Mediatek, Inc.

Inuitive Ltd.

Synopsys, Inc.

Verisilicon Holdings Co., Ltd.

Lattice Semiconductor Corporation

Google, Inc.

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