

LAMEA Spintronic Logic Devices Market By Type (Metal Based Devices and Semiconductor Based Devices) By End User (Industrial Motors, Electric Vehicles, Data Storage, Semiconductor Lasers, Magnetic Tunnel Transistor and Others) By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The Latin America, Middle East and Africa Spintronic Logic Devices Market would witness market growth of 42.5% CAGR during the forecast period (2020-2026). Spintronics have been in the lexicon of post-CMOS alternatives over a long period. Therefore, the existing hurdles can be avoided, which would act as the foundation for new types of transistors. Spintronics uses the quantum property of spin in electrons, as opposed to conventional transistors that work by stopping and starting the movement of electrons to create binary logic. The electron spin property serves as the basis for magnetism: if the electrons rotate moves in one direction, then a substance becomes magnetized.

Most designs relied on electrons to accumulate at the interface between a metallic magnet and an insulator to exploit the phenomenon in digital logic transistors. Unfortunately there's very little impact when a voltage is applied to change the spin in such a system.

The invention of giant magnetoresistance (GMR)-based devices has triggered a paradigm change in the electronics industry, taking new technology areas, such as magneto-electronics, out. GMR is an effect of quantum mechanical magnetoresistance produced when multilayers are composed of alternating layers of ferromagnetic and non-magnetic conductivity. In general, the GMR systems consist of a non-magnetic metal layer between two magnetic metals.

GMR sensors are also used for various applications in the automotive industry, such as

rotational speed, angle, and location. New hybrid electric cars, including the Toyota Prius, use integrated power electronics (IPEM) modules to minimize prices, kit size, and interconnections. A GMR point field detector is used directly within the IPEM module for the in-situ current measurement. Therefore, as electric vehicles and hybrid electric vehicles are gradually being introduced, the use of GMR systems is also expected to grow over the projected period.

Based on Type, the market is segmented into Metal Based Devices and Semiconductor Based Devices. Metal Based Devices are further segmented into Spin -Transfer Torque Device, Tunnel-Magneto Resistance, Giant-Magneto Resistance and Others.

Semiconductor Based Devices are further bifurcated across Spin Diode and Spin Filter & Spin Field Effect Transistor. Based on End User, the market is segmented into Industrial Motors, Electric Vehicles, Data Storage, Semiconductor Lasers, Magnetic Tunnel Transistor and Others. Based on countries, the market is segmented into Brazil, Argentina, UAE, Saudi Arabia, South Africa, Nigeria, and Rest of LAMEA.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Infineon Technologies AG, MTS Systems Corporation (PCB Piezotronics, Inc.), Kistler Group (Kistler Holding AG), Spectris PLC (HBM), Everspin Technologies, Inc., NVE Corporation, Crocus Technology, Inc., FUTEK Advanced Sensor Technology, Inc., Spin Memory, Inc., Sensor Technology Ltd.

Scope of the Study

Market Segmentation:

By Type

Metal Based Devices

Spin -Transfer Torque Device

Tunnel-Magneto Resistance

Giant-Magneto Resistance

Others

Semiconductor Based Devices

Spin Diode

Spin Filter & Spin Field Effect Transistor

By End User

Industrial Motors

Electric Vehicles

Data Storage

Semiconductor Lasers

Magnetic Tunnel Transistor

Others

By Country

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

Companies Profiled

Infineon Technologies AG

MTS Systems Corporation (PCB Piezotronics, Inc.)

Kistler Group (Kistler Holding AG)

Spectris PLC (HBM)

Everspin Technologies, Inc.

NVE Corporation

Crocus Technology, Inc.

FUTEK Advanced Sensor Technology, Inc.

Spin Memory, Inc.

Sensor Technology Ltd.

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