

Digital Phase Shifter Market - Forecasts from 2018 to 2023

<https://marketpublishers.com/r/D8F8888D853EN.html>

Date: August 2018

Pages: 106

Price: US\$ 3,950.00 (Single User License)

ID: D8F8888D853EN

Abstracts

The global digital phase shifter market was valued at US\$54.351 million in 2017 and is projected to expand at a CAGR of 55.64% over the forecast period to reach US\$772.565 million by 2023. Digital phase shifters change the phase of Radio Frequency (RF) and microwave signals while providing no amplitude change. Rising demand of digital phase shifters across various end-user industries such as defense, aerospace, telecom, broadband etc. is the major driving factor that is driving the market growth. The utilization of digital phase shifters in emerging application areas such as phased array will further boost the market these devices. The market will grow at an impressive rate primarily due to the introduction of 5G technology that will generate huge demand for digital phase shifters deployment for beamforming. Innovation in the antenna technology for real-world applications will influence the performance of the market in the future.

By Number of bits

By the number of digital bits, the global digital phase shifter market has been segmented into 4-bit, 5-bit, 8-bit digital phase shifters, and others. Others include 10-bit, 12-bit, and 16-bit digital phase shifters that are still in the preliminary stage of their development. The 8-bit digital phase shifter is used in new emerging applications such as phased array and active antenna applications.

By Application

By application, the global digital phase shifter market has been segmented into the phased array, frequency translators, solid state power amplifiers, radar, and electronic warfare and phase cancellation applications. Growing integration of phase shifters in the development of phased array antennas and emergence of new generation smart weapons are expected to boost the market growth.

By End-user

By End-users, the global digital phase shifter market has been segmented into defense,

telecommunication, radar and communication, aerospace, and others. Others include weather forecast and broadband and cable TV. The promising emergence of 5G technology and rising expansion of telecommunication infrastructure in emerging countries will together push the digital phase shifter market in the telecommunication sector.

By Geography

Geographically, the global digital phase shifter market has been segmented into North America, Europe, Middle East & Africa, Asia-Pacific, and South America region. North America dominates the digital phase shifter market and is expected to remain the global leader during the forecast period. This sustained growth is attributed to the commercialization of space exploration and a huge defense budget. It will remain in the limelight owing to the strong presence of US-based companies in the telecommunication sector in terms of trial and deployment of 5G technology.

Competitive Intelligence

The global phase shifter market is competitive owing to the presence of well-diversified global and regional players. The global key players are Analog Devices, Inc., MACOM, pSemi Corporation, Qorvo, Inc., Planar Monolithics Industries, Inc., L3 Narda-MITEQ, Pulsar Microwave Corporation, Pasternack Enterprises, Inc., Mercury Systems, Inc., and SAGE Millimeter, Inc.

Segmentation

The global digital phase shifter market has been analyzed through the following segments:

By Number of bits

4-bit digital phase shifter

5-bit digital phase shifter

6-bit digital phase shifter

8-bit digital phase shifter

Others

By Applications

Phased Array

Frequency Translators

Solid State Power Amplifiers

Radar and Electronic Warfare

Phase Cancellation

By End User

Defense

Telecommunication

Radar & Communication

Aerospace

Others

By Geography

North America

United States

Canada

Mexico

Others

South America

Brazil

Argentina

Others

Europe

Germany

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Others

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Others

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Japan

China

India

Australia

South Korea

Others

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