

# **Global Digital Isolators Market Study 2015-2025, by Segment (Capacitive Coupling, Optical coupling, Giant Magnetoresistive GMR), by Market (Energy Generation & Distribution, Industrial Optical coupling, Telecom), by Company (Silicon Labs, ADI, TI)**

<https://marketpublishers.com/r/G7106A0B929EN.html>

Date: September 2018

Pages: 72

Price: US\$ 1,800.00 (Single User License)

ID: G7106A0B929EN

## **Abstracts**

### **SNAPSHOT**

A digital isolator is used to get a digital signal across a galvanic isolation boundary. They serve a similar purpose to optocouplers, except optocouplers are far too slow and error prone for high speed (1MHz+) digital signals. They also use a different coupling technology, usually transformer or RF link as opposed to an optical link. While digital isolators only work with digital signals, they are frequently used to transfer digitised versions of analogue signals. The resulting signal chain will have better bandwidth, accuracy and linearity in comparison to an optocoupler based system. Optocouplers have inherent non-linearity and high unit to unit variations (+- 50% of your signal), so the circuit will need to be immune to these variations or each unit individually calibrated. Multiplexing digital channels across a single digital isolator path can be achieved very easily, which in turn simplifies the circuit and results in a net cost saving in spite of using a more expensive isolation technology. In short, digital isolators are superior to optocouplers in almost every regard.

The global Digital Isolators market will reach xxx Million USD in 2018 and with a CAGR of xx% between 2019-2025.

Product Type Coverage (Market Size & Forecast, Major Company of Product Type etc.):

Capacitive Coupling

Optical coupling

Giant Magnetoresistive GMR

Magnetic Coupling

Demand Coverage (Market Size & Forecast, Consumer Distribution):

Energy Generation & Distribution

Industrial

Telecom

Others

Company Coverage (Sales data, Main Products & Services etc.):

Silicon Labs

ADI

TI

Broadcom Corporation

Maxim Integrated

Vicor

Rhopoint Components

NVE

ROHM

## Major Region Market

North America

Europe

Asia-Pacific

South America

Middle East & Africa

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