

Global and United States Digital Isolators Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

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.

Market Segment as follows:

By Type

Capacitive Coupling

Optical coupling

Giant Magnetoresistive GMR

Magnetic Coupling

By Application

Energy Generation & Distribution

Industrial

Telecom

Others

By Company

Silicon Labs

ADI

TI

Broadcom Corporation

Maxim Integrated

Vicor

Rhopoint Components

NVE

ROHM

The main contents of the report including:

Section 1:

Product definition, type and application, global and United States market overview;

Section 2:

Global and United States Market competition by company;

Section 3:

Global and United States sales revenue, volume and price by type;

Section 4:

Global and United States sales revenue, volume and price by application;

Section 5:

United States export and import;

Section 6:

Company information, business overview, sales data and product specifications;

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Industry chain and raw materials;

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