

# Global IQ Modulator and Demodulator Market Research Report 2016

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## Abstracts

This report studies IQ Modulator and Demodulator in Global market, especially in North America, Europe, China, Japan, Taiwan and India, focuses on top manufacturers in global market, with capacity, production, price, revenue and market share for each manufacturer, covering

STMicroelectronics

Seme LAB

Texas Instruments

Linear Integrated Systems.

Analog Devices

Linear Technology

Tyco Electronics

Cirrus Logic

Merrimac Industries, Inc.

M/A-COM Technology Solutions, Inc.

Maxim Integrated Products

Freescale Semiconductor, Inc

ON Semiconductor

NXP Semiconductors

NEC

Siemens Semiconductor Group

Renesas Technology Corp

Sanyo Semicon Device

Exar Corporation

Hitachi Semiconductor

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of IQ Modulator and Demodulator in these regions, from 2011 to 2021 (forecast), like

North America

China

Europe

Japan

Taiwan

India

Row

Split by Product Types, with production, revenue, price, market share and growth rate of each type, can be divided into

I/Q Demodulators

I/Q Modulators

I/Q Demodulators with Integrated LO

I/Q Modulators with Integrated LO

Split by applications, this report focuses on consumption, market share and growth rate of IQ Modulator and Demodulator in each application, can be divided into

Computer

Communication Infrastructure

Communication Device

Aviation & Space Science

Military

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1 IQ Modulator and Demodulator Market Overview

1.1 Product Overview and Scope of IQ Modulator and Demodulator

A demodulator is a circuit that is used in amplitude modulation and frequency modulation receivers in order to separate the information that was modulated onto the carrier from the carrier itself. A demodulator is the analog part of the modulator. A modulator puts the information onto a carrier wave at the transmitter end and then a demodulator pulls it so it can be processed and used on the receiver end.

Figure Picture of IQ Modulator and Demodulator

Source: QYR Electronics Research Center, Dec. 2016

1.2 IQ Modulator and Demodulator Segment by Types

1.2.1 Global Production Market Share of IQ Modulator and Demodulator by Types in 2015

Figure Global Production Market Share of IQ Modulator and Demodulator by Types in 2015

Source: QYR Electronics Research Center, Dec. 2016



## Table Classification of IQ Modulator and Demodulator

Types

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

### 1.2.2 I/Q Demodulators

Figure Product Picture of I/Q Demodulators

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of I/Q Demodulators

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

Source: Above Companies; QYR Electronics Research Center, Dec. 2016

### 1.2.3 I/Q Modulators

Figure Product Picture of I/Q Modulators

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of I/Q Modulators

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

Source: Above Companies; QYR Electronics Research Center, Dec. 2016

### 1.2.4 I/Q Demodulators with Integrated LO

Figure Product Picture of I/Q Demodulators with Integrated LO

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of I/Q Demodulators with Integrated LO

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

Source: Above Companies; QYR Electronics Research Center, Dec. 2016

#### 1.2.5 I/Q Modulators with Integrated LO

Figure Product Picture of I/Q Modulators with Integrated LO

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of I/Q Modulators with Integrated LO

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

Source: Above Companies; QYR Electronics Research Center, Dec. 2016

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Table IQ Modulator and Demodulator Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Applications of IQ Modulator and Demodulator

Applications

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.2 Computer

Computer

Figure Computer Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.3 Communication Infrastructure

Communication Infrastructure

Figure Communication Infrastructure Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.4 Communication Device

Communication Device

Figure Communication Device Examples

Source: QYR Electronics Research Center, Dec. 2016

### 1.3.5 Aviation & Space Science

Aviation & Space Science

Figure Aviation & Space Science Examples

Source: QYR Electronics Research Center, Dec. 2016

### 1.3.6 Military

Military

Figure Military Examples

Source: QYR Electronics Research Center, Dec. 2016

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Source: QYR Electronics Research Center, Dec. 2016

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Source: QYR Electronics Research Center, Dec. 2016

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Source: QYR Electronics Research Center, Dec. 2016

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Capacity

2015

2016

STMicroelectronics

Seme LAB

Texas Instruments

Linear Integrated Systems.

Analog Devices

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Capacity Market Share of Key  
Manufacturers (2015 and 2016)

Capacity

2015

2016

STMicroelectronics

Seme LAB

Texas Instruments

Linear Integrated Systems.

Analog Devices

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Capacity of Key Manufacturers in 2015

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Capacity of Key Manufacturers in 2016

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Production of Key Manufacturers (2015  
and 2016)

Production

2015

2016

STMicroelectronics

Seme LAB

Texas Instruments

Linear Integrated Systems.

Analog Devices

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Production Share by Manufacturers (2015 and 2016)

Production Share

2015

2016

STMicroelectronics

Seme LAB

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure 2015 IQ Modulator and Demodulator Production Share by Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure 2016 IQ Modulator and Demodulator Production Share by Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

2.2 Global IQ Modulator and Demodulator Revenue and Share by Manufacturers (2015 and 2016)

Table Global IQ Modulator and Demodulator Revenue (Million USD) by Manufacturers (2015 and 2016)

Revenue

2015

2016

STMicroelectronics

Seme LAB

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Revenue Share by Manufacturers (2015 and 2016)

Revenue Share

2015

2016

STMicroelectronics

Seme LAB

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table 2015 Global IQ Modulator and Demodulator Revenue Share by Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table 2016 Global IQ Modulator and Demodulator Revenue Share by Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

2.3 Global IQ Modulator and Demodulator Average Price by Manufacturers (2015 and 2016)

Table Global Market IQ Modulator and Demodulator Average Price of Key Manufacturers (2015 and 2016)

2015

2016

STMicroelectronics

Seme LAB

...

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure Global Market IQ Modulator and Demodulator Average Price of Key Manufacturers in 2015

Source: Above companies; QYR Electronics Research Center, Dec. 2016

2.4 Manufacturers IQ Modulator and Demodulator Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers IQ Modulator and Demodulator Manufacturing Base Distribution and Sales Area

Manufacturing Base Distribution

Sales Area

STMicroelectronics

Seme LAB

...

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Table Manufacturers IQ Modulator and Demodulator Product Types

Product Types

STMicroelectronics

Seme LAB

...

Source: Above companies; QYR Electronics Research Center, Dec. 2016

## 2.5 IQ Modulator and Demodulator Market Competitive Situation and Trends?

### 2.5.1 IQ Modulator and Demodulator Market Concentration Rate

### 2.5.2 IQ Modulator and Demodulator Market Share of Top 3 and Top 5 Manufacturers

Figure IQ Modulator and Demodulator Market Share of Top 3 Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

Figure IQ Modulator and Demodulator Market Share of Top 5 Manufacturers

Source: Above companies; QYR Electronics Research Center, Dec. 2016

### 2.5.3 Mergers & Acquisitions, Expansion

3 Global IQ Modulator and Demodulator Capacity, Production, Revenue (Value) by Regions (2011-2016)

3.1 Global IQ Modulator and Demodulator Capacity and Market Share by Regions (2011-2016)

Table Global IQ Modulator and Demodulator Capacity by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Capacity Market Share by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe  
China  
Japan  
Taiwan  
India  
Row  
ROW  
Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Capacity Market Share by Regions  
(2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global IQ Modulator and Demodulator Capacity Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.2 Global IQ Modulator and Demodulator Production and Market Share by Regions  
(2011-2016)

Table Global IQ Modulator and Demodulator Production by Regions (2011-2016)

2011  
2012  
2013  
2014  
2015  
2016

North America

Europe  
China  
Japan  
Taiwan  
India  
Row  
ROW  
Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Production and Market Share by Regions  
(2011-2016)

2011  
2012  
2013  
2014



2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Production Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global IQ Modulator and Demodulator Production Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.3 Global IQ Modulator and Demodulator Revenue (Value) and Market Share by Regions (2011-2016)

Table Global IQ Modulator and Demodulator Revenue by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Revenue Market Share by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Table 2015 Global IQ Modulator and Demodulator Revenue Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.4 Global IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.5 North America IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table North America IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.6 Europe IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Europe IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.7 China IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China IQ Modulator and Demodulator Capacity, Production, Revenue, Price and

Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.8 Japan IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.9 Taiwan IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Taiwan IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.10 India IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.11 Row IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row IQ Modulator and Demodulator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011

2012

2013

2014

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

4 Global IQ Modulator and Demodulator Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global IQ Modulator and Demodulator Consumption by Regions (2011-2016)

Table Global IQ Modulator and Demodulator Consumption Market by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Consumption Market Share by Regions (2011-2016)

2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global IQ Modulator and Demodulator Consumption Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global IQ Modulator and Demodulator Consumption Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

4.2 North America IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table North America IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.3 Europe IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.4 China IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table China IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.5 Japan IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table Japan IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export



Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.6 Taiwan IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table Taiwan IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.7 India IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table India IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.8 Row IQ Modulator and Demodulator Production, Consumption, Export, Import by Regions (2011-2016)

Table Row IQ Modulator and Demodulator Production, Consumption, Import & Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

5 Global IQ Modulator and Demodulator Production, Revenue (Value), Price Trend by Types

5.1 Global IQ Modulator and Demodulator Production and Market Share by Types (2011-2016)

Table Global IQ Modulator and Demodulator Production by Types (2011-2016)

2011

2012

2013

2014

2015

2016

I/Q Demodulators

I/Q Modulators

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Production Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

I/Q Demodulators

I/Q Modulators

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Market Share of IQ Modulator and Demodulator by Types (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Production Market Share of IQ Modulator and Demodulator by Types

Source: QYR Electronics Research Center, Dec. 2016

5.2 Global IQ Modulator and Demodulator Revenue and Market Share by Types  
(2011-2016)

Table Global IQ Modulator and Demodulator Revenue by Types (2011-2016)

2011

2012

2013

2014

2015

2016

I/Q Demodulators

I/Q Modulators

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global IQ Modulator and Demodulator Revenue Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

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