

Global Frequency Mixer Market Research Report 2016

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Abstracts

This report studies Mixer 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

Analog Devices

Texas Instrument

Micronetics, Inc.

SYNERGY MICROWAVE CORPORATION.

Merrimac Industries, Inc.

Tyco Electronics

Microsemi Corporation

VAGO TECHNOLOGIES LIMITED

M/A-COM Technology Solutions, Inc.

Anaren Microwave

Siemens Semiconductor Group

Panasonic Semiconductor

Pasternack Enterprises, Inc.

American Accurate Components, Inc.

Mini-Circuits

Maxim Integrated Products

NXP Semiconductors

BOWEI Integrated Circuits CO.,LTD.

Hirose Electric

Macom

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of Mixer 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

Single Balanced Mixers

Double Balanced Mixers

Triple Balanced Mixers

IQ Upconverters/Transmitters

I/Q Downconverters/Receivers

IQ and Image Reject

Sub-Harmonic Mixers

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

Consumer Electronics

Sound Device

Communication Device

Rader System

Aviation Device

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1 Mixer Market Overview

1.1 Product Overview and Scope of Mixer

In electronics, a mixer, or frequency mixer, is a nonlinear electrical circuit that creates new frequencies from two signals applied to it. In its most common application, two signals at frequencies f_1 and f_2 are applied to a mixer, and it produces new signals at the sum $f_1 + f_2$ and difference $f_1 - f_2$ of the original frequencies, called heterodynes. Other frequency components may also be produced in a practical frequency mixer. Mixers are widely used to shift signals from one frequency range to another, a process known as heterodyning, for convenience in transmission or further signal processing. For example, a key component of a superheterodyne receiver is a mixer used to move received signals to a common intermediate frequency. Frequency mixers are also used to modulate a carrier signal in radio transmitters.

Figure Picture of Mixer

Source: QYR Electronics Research Center, Dec. 2016

1.2 Mixer Segment by Types

1.2.1 Global Production Market Share of Mixer by Types in 2015

Figure Global Production Market Share of Mixer by Types in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Classification of Mixer

Types

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

1.2.2 Single Balanced Mixers

Figure Product Picture of Single Balanced Mixers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Single Balanced Mixers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.3 Double Balanced Mixers

Figure Product Picture of Double Balanced Mixers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Double Balanced Mixers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.4 Triple Balanced Mixers

Figure Product Picture of Triple Balanced Mixers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Triple Balanced Mixers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.5 IQ Upconverters/Transmitters

Figure Product Picture of IQ Upconverters/Transmitters

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of IQ Upconverters/Transmitters

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.6 I/Q Downconverters/Receivers

Figure Product Picture of I/Q Downconverters/Receivers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of I/Q Downconverters/Receivers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.7 IQ and Image Reject

Figure Product Picture of IQ and Image Reject

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of IQ and Image Reject

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.8 Sub-Harmonic Mixers

Figure Product Picture of Sub-Harmonic Mixers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Sub-Harmonic Mixers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.3 Mixer Segment by Applications

1.3.1 Mixer Consumption Market Share by Applications in 2015

Table Mixer Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Applications of Mixer

Applications

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

1.3.2 Consumer Electronics

Consumer Electronics

Figure Consumer Electronics Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.3 Sound Device

Sound Device

Figure Sound Device 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 Rader System

Rader System

Figure Rader System Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.6 Aviation Device

Aviation Device

Figure Aviation Device 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

1.4.7 Row Status and Prospect (2011-2021)

Figure Row Mixer Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronics Research Center, Dec. 2016

1.5 Global Market Size (Value) of Mixer (2011-2021)

Figure Global Mixer Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronics Research Center, Dec. 2016

2 Global Mixer Market Competition by Manufacturers

2.1 Global Mixer Capacity, Production and Share by Manufacturers (2015 and 2016)

Table Global Mixer Capacity of Key Manufacturers (2015 and 2016)

Capacity

2015

2016

Analog Devices

Texas Instrument

Micronetics, Inc.

SYNERGY MICROWAVE CORPORATION.

Merrimac Industries, Inc.

...

Total

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

Table Global Mixer Capacity Market Share of Key Manufacturers (2015 and 2016)

Capacity

2015

2016

Analog Devices

Texas Instrument

Micronetics, Inc.

SYNERGY MICROWAVE CORPORATION.

Merrimac Industries, Inc.

...

Total

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

Figure Global Mixer Capacity of Key Manufacturers in 2015

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

Figure Global Mixer Capacity of Key Manufacturers in 2016

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

Table Global Mixer Production of Key Manufacturers (2015 and 2016)

Production

2015

2016

Analog Devices

Texas Instrument

Micronetics, Inc.

SYNERGY MICROWAVE CORPORATION.

Merrimac Industries, Inc.

...

Total

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

Table Global Mixer Production Share by Manufacturers (2015 and 2016)

Production Share

2015

2016

Analog Devices

Texas Instrument

...

Total

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

Figure 2015 Mixer Production Share by Manufacturers

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

Figure 2016 Mixer Production Share by Manufacturers

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

2.2 Global Mixer Revenue and Share by Manufacturers (2015 and 2016)

Table Global Mixer Revenue (Million USD) by Manufacturers (2015 and 2016)

Revenue

2015

2016

Analog Devices
Texas Instrument

...

Total

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

Table Global Mixer Revenue Share by Manufacturers (2015 and 2016)

Revenue Share

2015

2016

Analog Devices

Texas Instrument

...

Total

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

Table 2015 Global Mixer Revenue Share by Manufacturers

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

Table 2016 Global Mixer Revenue Share by Manufacturers

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

2.3 Global Mixer Average Price by Manufacturers (2015 and 2016)

Table Global Market Mixer Average Price of Key Manufacturers (2015 and 2016)

2015

2016

Analog Devices

Texas Instrument

...

Total

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

Figure Global Market Mixer Average Price of Key Manufacturers in 2015

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

2.4 Manufacturers Mixer Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers Mixer Manufacturing Base Distribution and Sales Area

Manufacturing Base Distribution

Sales Area

Analog Devices

Texas Instrument

...

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

Table Manufacturers Mixer Product Types

Product Types

Analog Devices

Texas Instrument

...

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

2.5 Mixer Market Competitive Situation and Trends?

2.5.1 Mixer Market Concentration Rate

2.5.2 Mixer Market Share of Top 3 and Top 5 Manufacturers

Figure Mixer Market Share of Top 3 Manufacturers

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

Figure Mixer Market Share of Top 5 Manufacturers

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

2.5.3 Mergers & Acquisitions, Expansion

3 Global Mixer Capacity, Production, Revenue (Value) by Regions (2011-2016)

3.1 Global Mixer Capacity and Market Share by Regions (2011-2016)

Table Global Mixer 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 Mixer 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 Mixer Capacity Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Mixer Capacity Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.2 Global Mixer Production and Market Share by Regions (2011-2016)

Table Global Mixer 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 Mixer 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 Mixer Production Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Mixer Production Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.3 Global Mixer Revenue (Value) and Market Share by Regions (2011-2016)

Table Global Mixer 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 Mixer 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 Mixer Revenue Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.4 Global Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)

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

Table Europe Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Taiwan Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India Mixer 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 Mixer Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Mixer 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 Mixer Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Mixer Consumption by Regions (2011-2016)

Table Global Mixer 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 Mixer 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 Mixer Consumption Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Mixer Consumption Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

4.2 North America Mixer Production, Consumption, Export, Import by Regions

(2011-2016)

Table North America Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table China Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table Japan Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table Taiwan Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table India Mixer 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 Mixer Production, Consumption, Export, Import by Regions (2011-2016)

Table Row Mixer 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 Mixer Production, Revenue (Value), Price Trend by Types

5.1 Global Mixer Production and Market Share by Types (2011-2016)

Table Global Mixer Production by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Single Balanced Mixers

Double Balanced Mixers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Mixer Production Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Single Balanced Mixers

Double Balanced Mixers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Market Share of Mixer by Types (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Production Market Share of Mixer by Types

Source: QYR Electronics Research Center, Dec. 2016

5.2 Global Mixer Revenue and Market Share by Types (2011-2016)

Table Global Mixer Revenue by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Single Balanced Mixers

Double Balanced Mixers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Mixer Revenue Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Single Balanced Mixers

Double Balanced Mixers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Revenue Share of Mixer by Types (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Revenue Market Share of Mixer by Types

Source: QYR Electronics Research Center, Dec. 2016

5.3 Global Mixer Price by Type (2011-2016)

Table Global Mixer Price by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Single Balanced Mixers

Double Balanced Mixers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

5.4 Global Mixer Production Growth by Type (2011-2016)

Figure Global Mixer Production Growth by Type (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

6 Global Mixer Market Analysis by Applications

6.1 Global Mixer Consumption and Market Share by Applications (2011-2016)

Table Global Mixer Consumption by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Consumer Electronics

Sound Device

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Mixer Consumption Market Share by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Consumer Electronics

Sound Device

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global Mixer Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

6.2 Global Mixer Consumption Growth Rate by Applications (2011-2016)

Table Global Mixer Consumption Growth Rate by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Consumer Electronics

Sound Device

...

Source: QYR Electronics Research Center, Dec. 2016

Figure Global Mixer Consumption Growth Rate by Applications (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

6.3 Market Drivers and Opportunities

6.3.1 Potential Applications

6.3.2 Emerging Markets/Countries

7 Global Mixer Manufacturers Profiles/Analysis

7.1 Analog Devices

7.1.1 Company Basic Information, Manufacturing Base, Sales Area and Its

Competitors

Table Analog Devices Basic Information, Manufacturing Base, Sales Area and Its

Competitors

#

Item

Description

1

Company Name

2

Website

3

Commercial Production Date of Mixer

4

Manufacturing Locations of Mixer

5

Mixer Sales Area

6

Main Business/Business Overview

7

Contact Information

Source: Analog Devices; QYR Electronics Research Center, Dec. 2016

7.1.2 Mixer Product Types, Application and Specification

7.1.2.1 Type one

7.1.2.2 Type two

7.1.3 Analog Devices Mixer Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

Table Analog Devices Mixer Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

2015

2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: Analog Devices; QYR Electronics Research Center, Dec. 2016

Figure Analog De

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