

# Global Comparator Market Research Report 2016

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## Abstracts

This report studies Comparator 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

TEXAS INSTRUMENTS

National Semiconductor

INTERSIL CORPORATION

Taiwan Semiconductor

ANALOG DEVICES

MICROCHIP TECHNOLOGY

Maxim Integrated Products

STMICROELECTRONICS

IK SEMICON CO., LTD

ROHM

HOLTEK SEMICONDUCTOR INC

MAXWELL TECHNOLOGIES

## ON SEMICONDUCTOR

Touchstone Semiconductor Inc

Renesas Technology Corp

NEC

KEC(Korea Electronics)

Elantec Semiconductor

Microchip Technology

System Logic Semiconductor

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

**FAST RESPONSE**

0.0007us-0.0045us

0.0045us-0.075us

0.075us-0.18us

0.18us-0.3us

**Low Power**

0.00015mA-0.001mA

0.001mA-0.003mA

0.003mA-0.005mA

**Min Voltage**

0.9V-2.2V

2.2V-3.5V

3.5V-5V

5V-10V

Above 10V

**Output Type**

Open Collector

Push-Pull

Open Drain

RSPECL

LVDS

Differential

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

Consumer Electronics

Home Appliance

Measuring Instrument

Power Facilities

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1 Comparator Market Overview

1.1 Product Overview and Scope of Comparator

In electronics, a comparator is a device that compares two voltages or currents and outputs a digital signal indicating which is larger. It has two analog input terminals and one binary digital output. A comparator consists of a specialized high-gain differential amplifier. They are commonly used in devices that measure and digitize analog signals, such as analog-to-digital converters (ADCs), as well as relaxation oscillators.

Figure Picture of Comparator

Source: Texas Instruments, QYR Electronic Research Center, Dec. 2016

1.2 Comparator Segment by Types

1.2.1 Global Production Market Share of Comparator by Types in 2015

Figure Global Production Market Share of Comparator by Types in 2015

Source: QYR Electronic Research Center, Dec. 2016

Table Classification of Comparator

Types

Feature

Description

1

2

3

Source: QYR Electronic Research Center, Dec. 2016

1.2.2 FAST RESPONSE

Figure Product Picture of FAST RESPONSE

Source: QYR Electronic Research Center, Dec. 2016

Table Major Manufacturers of FAST RESPONSE



## Manufacturers

### Location of Manufacturing Bases/Factories

1

2

3

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

1.2.2.1 0.0007us-0.0045us

1.2.2.2 0.0045us-0.075us

1.2.2.3 0.075us-0.18us

1.2.2.4 0.18us-0.3us

### 1.2.3 Low Power

#### Figure Product Picture of Low Power

Source: QYR Electronic Research Center, Dec. 2016

#### Table Major Manufacturers of Low Power

## Manufacturers

### Location of Manufacturing Bases/Factories

1

2

3

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

1.2.3.1 0.00015mA-0.001mA

1.2.3.2 0.001mA-0.003mA

1.2.3.3 0.003mA-0.005mA

### 1.2.4 Min Voltage

#### Figure Product Picture of Min Voltage

Source: QYR Electronic Research Center, Dec. 2016

#### Table Major Manufacturers of Min Voltage

## Manufacturers

### Location of Manufacturing Bases/Factories

1

2

3

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

1.2.4.1 0.9V-2.2V

1.2.4.2 2.2V-3.5V

1.2.4.3 3.5V-5V

1.2.4.4 5V-10V

1.2.4.5 Above 10V

### 1.2.5 Output Type

Figure Product Picture of Output Type

Source: QYR Electronic Research Center, Dec. 2016

Table Major Manufacturers of Output Type

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.5.1 Open Collector

1.2.5.2 Push-Pull

1.2.5.3 Open Drain

1.2.5.4 RESPECL

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1.3 Comparator Segment by Applications

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Table Comparator Consumption Market Share by Applications in 2015

Source: QYR Electronic Research Center, Dec. 2016

Table Applications of Comparator

Applications

Feature

Description

1

2

3

Source: QYR Electronic Research Center, Dec. 2016

1.3.2 Consumer Electronics

Consumer Electronics

Figure Consumer Electronics Examples

Source: QYR Electronic Research Center, Dec. 2016

1.3.3 Home Appliance

Home Appliance

Figure Home Appliance Examples

Source: QYR Electronic Research Center, Dec. 2016

1.3.4 Measuring Instrument

Measuring Instrument

Figure Measuring Instrument Examples

Source: QYR Electronic Research Center, Dec. 2016

1.3.5 Power Facilities

## Power Facilities

### Figure Power Facilities Examples

Source: QYR Electronic Research Center, Dec. 2016

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Source: QYR Electronic Research Center, Dec. 2016

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Source: QYR Electronic Research Center, Dec. 2016

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Source: QYR Electronic Research Center, Dec. 2016

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Source: QYR Electronic Research Center, Dec. 2016

##### 1.4.5 Taiwan Status and Prospect (2011-2021)

Figure Taiwan Comparator Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronic Research Center, Dec. 2016

##### 1.4.6 India Status and Prospect (2011-2021)

Figure India Comparator Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronic Research Center, Dec. 2016

##### 1.4.7 Row Status and Prospect (2011-2021)

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Source: QYR Electronic Research Center, Dec. 2016

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

Source: QYR Electronic Research Center, Dec. 2016

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### Capacity

TEXAS INSTRUMENTS

National Semiconductor

INTERSIL CORPORATION

Taiwan Semiconductor

ANALOG DEVICES

Total

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

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

Capacity

TEXAS INSTRUMENTS

National Semiconductor

INTERSIL CORPORATION

Taiwan Semiconductor

ANALOG DEVICES

Total

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

Figure Global Comparator Capacity of Key Manufacturers in 2015

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

Figure Global Comparator Capacity of Key Manufacturers in 2016

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

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

Production

TEXAS INSTRUMENTS

National Semiconductor

INTERSIL CORPORATION

Taiwan Semiconductor

ANALOG DEVICES

Total

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

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

Production Share

2015

2016

TEXAS INSTRUMENTS

National Semiconductor

Total

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

Figure 2015 Comparator Production Share by Manufacturers

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

Figure 2016 Comparator Production Share by Manufacturers

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

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

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

Revenue

TEXAS INSTRUMENTS

National Semiconductor

Total

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

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

Revenue Share

TEXAS INSTRUMENTS

National Semiconductor

Total

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

Table 2015 Global Comparator Revenue Share by Manufacturers

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

Table 2016 Global Comparator Revenue Share by Manufacturers

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

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

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

TEXAS INSTRUMENTS

National Semiconductor

Total

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

Figure Global Market Comparator Average Price of Key Manufacturers in 2015

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

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

Table Manufacturers Comparator Manufacturing Base Distribution and Sales Area

Manufacturing Base Distribution

Sales Area

TEXAS INSTRUMENTS

National Semiconductor

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

Table Manufacturers Comparator Product Types

Product Types

TEXAS INSTRUMENTS

National Semiconductor

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

2.5 Comparator Market Competitive Situation and Trends?

2.5.1 Comparator Market Concentration Rate

2.5.2 Comparator Market Share of Top 3 and Top 5 Manufacturers

Figure Comparator Market Share of Top 3 Manufacturers

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

Figure Comparator Market Share of Top 5 Manufacturers

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

2.5.3 Mergers & Acquisitions, Expansion

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

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

Table Global Comparator Capacity by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Capacity Market Share by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Capacity Market Share by Regions (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

Figure 2015 Global Comparator Capacity Market Share by Regions

Source: QYR Electronic Research Center, Dec. 2016

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

Table Global Comparator Production by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Production and Market Share by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Production Market Share by Regions (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

Figure 2015 Global Comparator Production Market Share by Regions

Source: QYR Electronic Research Center, Dec. 2016

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

Table Global Comparator Revenue by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Table Global Comparator Revenue Market Share by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronic Research Center, Dec. 2016

Table 2015 Global Comparator Revenue Market Share by Regions

Source: QYR Electronic Research Center, Dec. 2016

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

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

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

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.6 Europe Comparator Capacity, Production, Revenue, Price and Gross Margin  
(2011-2016)

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

Capacity

Production



Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.7 China Comparator Capacity, Production, Revenue, Price and Gross Margin  
(2011-2016)

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.8 Japan Comparator Capacity, Production, Revenue, Price and Gross Margin  
(2011-2016)

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.9 Taiwan Comparator Capacity, Production, Revenue, Price and Gross Margin  
(2011-2016)

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.10 India Comparator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

3.11 Row Comparator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Comparator Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronic Research Center, Dec. 2016

4 Global Comparator Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Comparator Consumption by Regions (2011-2016)

Table Global Comparator Consumption Market by Regions (2011-2016)

North America

Europe

China  
Japan  
Taiwan  
India  
Row  
ROW  
Total

Source: QYR Electronic Research Center, Dec. 2016

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

North America

Europe  
China  
Japan  
Taiwan  
India  
Row  
ROW  
Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Consumption Market Share by Regions (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

Figure 2015 Global Comparator Consumption Market Share by Regions

Source: QYR Electronic Research Center, Dec. 2016

4.2 North America Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table North America Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.3 Europe Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.4 China Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table China Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.5 Japan Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table Japan Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.6 Taiwan Comparator Production, Consumption, Export, Import by Regions  
(2011-2016)

Table Taiwan Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.7 India Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table India Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

4.8 Row Comparator Production, Consumption, Export, Import by Regions (2011-2016)

Table Row Comparator Production, Consumption, Import & Export (2011-2016)

Source: QYR Electronic Research Center, Dec. 2016

5 Global Comparator Production, Revenue (Value), Price Trend by Types

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

Table Global Comparator Production by Types (2011-2016)

FAST RESPONSE

Low Power

Total

Source: QYR Electronic Research Center, Dec. 2016

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

FAST RESPONSE

Low Power

Total

Source: QYR Electronic Research Center, Dec. 2016

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

Source: QYR Electronic Research Center, Dec. 2016

Figure 2015 Production Market Share of Comparator by Types

Source: QYR Electronic Research Center, Dec. 2016

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

Table Global Comparator Revenue by Types (2011-2016)

FAST RESPONSE

Low Power

Total

Source: QYR Electronic Research Center, Dec. 2016

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

FAST RESPONSE

Low Power

Total

Source: QYR Electronic Research Center, Dec. 2016

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

Source: QYR Electronic Research Center, Dec. 2016

Figure 2015 Revenue Market Share of Comparator by Types

Source: QYR Electronic Research Center, Dec. 2016

5.3 Global Comparator Price by Type (2011-2016)

Table Global Comparator Price by Types (2011-2016)

**FAST RESPONSE**

Low Power

Total

Source: QYR Electronic Research Center, Dec. 2016

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

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

Source: QYR Electronic Research Center, Dec. 2016

6 Global Comparator Market Analysis by Applications

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

Table Global Comparator Consumption by Applications (2011-2016)

Consumer Electronics

Home Appliance

Total

Source: QYR Electronic Research Center, Dec. 2016

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

Consumer Electronics

Home Appliance

Total

Source: QYR Electronic Research Center, Dec. 2016

Figure Global Comparator Consumption Market Share by Applications in 2015

Source: QYR Electronic Research Center, Dec. 2016

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

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

Consumer Electronics

Home Appliance

Source: QYR Electronic Research Center, Dec. 2016

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

Source: QYR Electronic Research Center, Dec. 2016

6.3 Market Drivers and Opportunities

6.3.1 Potential Applications

6.3.2 Emerging Markets/Countries

7 Global Comparator Manufacturers Profiles/Analysis

7.1 TEXAS INSTRUMENTS

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

## Competitors

Table TEXAS INSTRUMENTS Basic Information, Manufacturing Base, Sales Area and Its Competitors

#

Item

Description

1

Company Name

2

Website

3

Commercial Production Date of Comparator

4

Manufacturing Locations of Comparator

5

Comparator Sales Area

6

Main Business/Business Overview

7

Contact Information

Source: TEXAS INSTRUMENTS; QYR Electronic Research Center, Dec. 2016

7.1.2 Comparator Product Types, Application and Specification

7.1.2.1 TYPE ONE

7.1.2.2 Type two

7.1.3 TEXAS INSTRUMENTS Comparator Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

Table TEXAS INSTRUMENTS Comparator Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

Source: TEXAS INSTRUMENTS; QYR Electronic Research Center, Dec. 2016

Figure TEXAS INSTRUMENTS Comparator Market Share (2015 and 2016)

Source: TEXAS INSTRUMENTS; QYR Electronic Research Center, Dec. 2016

7.2 National Semiconductor

7.2.1 Company Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table National Semiconductor Basic Information, Manufacturing Base, Sales Area and Its Competitors

#

Item

Description

1

Company Name

2

Website

3

Commercial Production Date of Comparator

4

Manufacturing Locations of Comparator

5

Comparator Sales Area

6

Main Business/Business Overview

7

Contact Information

Source: National Semiconductor; QYR Electronic Research Center, Dec. 2016

7.2.2 Comparator Product Types, Applicatio

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