

# Global Clock Buffer Market Research Report 2016

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## Abstracts

This report studies Clock Buffer 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

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

TEXAS INSTRUMENTS

Cypress Semiconductor

ON SEMICONDUCTOR

ALLIANCE SEMICONDUCTOR CORPORATION

NXP Semiconductors

LATTICE SEMICONDUCTOR

TRIQUINT SEMICONDUCTOR

PERICOM SEMICONDUCTOR CORPORATION

ADVANCED ANALOGIC TECHNOLOGIES

INTEGRATED CIRCUIT SYSTEMS

## SPECTRALINEAR INC

PhaseLink Corporation

PulseCore Semiconductor

Renesas Technology Corp

Asahi Kasei Microsystems

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

North America

China

Europe

Japan

Taiwan

India

Row

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

CMOS

HCSSL

HSTL

LP-HCSL

LVCMOS

LVDS

LVPECL

LVTTTL

SSTL

SSTL-2

TTL

Others

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

PC

Industrial Computer

Super Computer

Automotive Computer System

Smart Phone System

Others

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1 Clock Buffer Market Overview

1.1 Product Overview and Scope of Clock Buffer

Buffers themselves usually are implemented to keep noise from feeding back into another system or to create a delay in the signal (hinted at by the name buffer). A clock buffer is implemented more specifically to control rise and fall time of clock edges

Figure Picture of Clock Buffer

Source: Silicon Lab, QYR Electronics Research Center, Dec. 2016

1.2 Clock Buffer Segment by Output Type

1.2.1 Global Production Market Share of Clock Buffer by Output Type in 2015

Figure Global Production Market Share of Clock Buffer by Output Type in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Classification of Clock Buffer

Output Type

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

1.2.2 CMOS

Figure Product Picture of CMOS

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of CMOS

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.3 HCSL

Figure Product Picture of HCSL

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of HCSL

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.4 HSTL

Figure Product Picture of HSTL

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of HSTL

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.5 LP-HCSL

Figure Product Picture of LP-HCSL

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of LP-HCSL

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.6 LVCMOS



Figure Product Picture of LVCMOS

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of LVCMOS

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

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

1.2.7 LVDS

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Applications

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

1.3.2 PC

PC

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Source: QYR Electronics Research Center, Dec. 2016

1.3.3 Industrial Computer

Industrial Computer

Figure Industrial Computer Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.4 Super Computer

Super Computer

Figure Super Computer Examples

Source: QYR Electronics Research Center, Dec. 2016

### 1.3.5 Automotive Computer System

Automotive Computer System

Figure Automotive Computer System Examples

Source: QYR Electronics Research Center, Dec. 2016

### 1.3.6 Smart Phone System

Smart Phone System

Figure Smart Phone System Examples

Source: QYR Electronics Research Center, Dec. 2016

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Source: QYR Electronics Research Center, Dec. 2016

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**INTEGRATED DEVICE TECHNOLOGY**

Motorola, Inc

**TEXAS INSTRUMENTS**

Cypress Semiconductor

**ON SEMICONDUCTOR**

Total

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

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

Capacity

**INTEGRATED DEVICE TECHNOLOGY**

Motorola, Inc

**TEXAS INSTRUMENTS**

Cypress Semiconductor

**ON SEMICONDUCTOR**

Total

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

Figure Global Clock Buffer Capacity of Key Manufacturers in 2015

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

Figure Global Clock Buffer Capacity of Key Manufacturers in 2016

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

Table Global Clock Buffer Production of Key Manufacturers (2015 and 2016)

Production

**INTEGRATED DEVICE TECHNOLOGY**

Motorola, Inc

**TEXAS INSTRUMENTS**

Cypress Semiconductor

**ON SEMICONDUCTOR**

Total

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

Table Global Clock Buffer Production Share by Manufacturers (2015 and 2016)

Production Share

2015

2016

**INTEGRATED DEVICE TECHNOLOGY**

Motorola, Inc

Total

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

Figure 2015 Clock Buffer Production Share by Manufacturers

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

Figure 2016 Clock Buffer Production Share by Manufacturers

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

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Revenue

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

Total

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

Table Global Clock Buffer Revenue Share by Manufacturers (2015 and 2016)

Revenue Share

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

Total

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

Table 2015 Global Clock Buffer Revenue Share by Manufacturers

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

Table 2016 Global Clock Buffer Revenue Share by Manufacturers

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

2.3 Global Clock Buffer Average Price by Manufacturers (2015 and 2016)

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

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

Total

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

Figure Global Market Clock Buffer Average Price of Key Manufacturers in 2015

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

2.4 Manufacturers Clock Buffer Manufacturing Base Distribution, Sales Area, Product Output Type

Table Manufacturers Clock Buffer Manufacturing Base Distribution and Sales Area  
Manufacturing Base Distribution

Sales Area

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

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

Table Manufacturers Clock Buffer Product Output Type

Product Output Type

INTEGRATED DEVICE TECHNOLOGY

Motorola, Inc

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

2.5 Clock Buffer Market Competitive Situation and Trends?

2.5.1 Clock Buffer Market Concentration Rate

2.5.2 Clock Buffer Market Share of Top 3 and Top 5 Manufacturers

Figure Clock Buffer Market Share of Top 3 Manufacturers

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

Figure Clock Buffer Market Share of Top 5 Manufacturers

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

2.5.3 Mergers & Acquisitions, Expansion

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

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

Table Global Clock Buffer Capacity by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Clock Buffer Capacity Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

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

Table Global Clock Buffer Production by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Clock Buffer Production Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

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

Table Global Clock Buffer Revenue by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

Table 2015 Global Clock Buffer Revenue Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

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

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

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

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

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.6 Europe Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table Europe Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.7 China Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table China Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.8 Japan Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table Japan Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.9 Taiwan Clock Buffer Capacity, Production, Revenue, Price and Gross Margin



(2011-2016)

Table Taiwan Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.10 India Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table India Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

3.11 Row Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table Row Clock Buffer Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Electronics Research Center, Dec. 2016

4 Global Clock Buffer Supply (Production), Consumption, Export, Import by Regions

(2011-2016)

#### 4.1 Global Clock Buffer Consumption by Regions (2011-2016)

Table Global Clock Buffer Consumption Market by Regions (2011-2016)

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Electronics Research Center, Dec. 2016

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

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Clock Buffer Consumption Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

#### 4.2 North America Clock Buffer Production, Consumption, Export, Import by Regions (2011-2016)

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

Source: QYR Electronics Research Center, Dec. 2016

#### 4.3 Europe Clock Buffer Production, Consumption, Export, Import by Regions (2011-2016)

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

Source: QYR Electronics Research Center, Dec. 2016

#### 4.4 China Clock Buffer Production, Consumption, Export, Import by Regions (2011-2016)

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

Source: QYR Electronics Research Center, Dec. 2016

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

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

Source: QYR Electronics Research Center, Dec. 2016

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

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

Source: QYR Electronics Research Center, Dec. 2016

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

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

Source: QYR Electronics Research Center, Dec. 2016

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

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

Source: QYR Electronics Research Center, Dec. 2016

5 Global Clock Buffer Production, Revenue (Value), Price Trend by Output Type

5.1 Global Clock Buffer Production and Market Share by Output Type (2011-2016)

Table Global Clock Buffer Production by Output Type (2011-2016)

CMOS

HCSL

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Clock Buffer Production Share by Output Type (2011-2016)

CMOS

HCSL

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Market Share of Clock Buffer by Output Type (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Production Market Share of Clock Buffer by Output Type

Source: QYR Electronics Research Center, Dec. 2016

5.2 Global Clock Buffer Revenue and Market Share by Output Type (2011-2016)

Table Global Clock Buffer Revenue by Output Type (2011-2016)

CMOS

HCSL

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Clock Buffer Revenue Share by Output Type (2011-2016)

CMOS

HCSL

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Revenue Share of Clock Buffer by Output Type (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Revenue Market Share of Clock Buffer by Output Type

Source: QYR Electronics Research Center, Dec. 2016

5.3 Global Clock Buffer Price by Type (2011-2016)

Table Global Clock Buffer Price by Output Type (2011-2016)

CMOS

HCSL

Total

Source: QYR Electronics Research Center, Dec. 2016

5.4 Global Clock Buffer Production Growth by Type (2011-2016)

Figure Global Clock Buffer Production Growth by Type (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

6 Global Clock Buffer Market Analysis by Applications

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

Table Global Clock Buffer Consumption by Applications (2011-2016)

PC

Industrial Computer

Total

Source: QYR Electronics Research Center, Dec. 2016

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

PC

Industrial Computer

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Global Clock Buffer Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

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

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

PC

Industrial Computer

Source: QYR Electronics Research Center, Dec. 2016

Figure Global Clock Buffer 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 Clock Buffer Manufacturers Profiles/Analysis

7.1 INTEGRATED DEVICE TECHNOLOGY

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

Competitors

Table INTEGRATED DEVICE TECHNOLOGY Basic Information, Manufacturing Base, Sales Area and Its Competitors

#

Item

Description

1

Company Name

2

Website

3

Commercial Production Date of Clock Buffer

4

Manufacturing Locations of Clock Buffer

5

Clock Buffer Sales Area

6

Main Business/Business Overview

7

Contact Information

Source: INTEGRATED DEVICE TECHNOLOGY; QYR Electronics Research Center, Dec. 2016

7.1.2 Clock Buffer Product Output Type, Application and Specification

7.1.2.1 Type one

7.1.2.2 Type two

7.1.3 INTEGRATED DEVICE TECHNOLOGY Clock Buffer Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

Table INTEGRATED DEVICE TECHNOLOGY Clock Buffer Capacity, Production, Revenue, Price and Gross Margin (2015 and 2016)

Source: INTEGRATED DEVICE TECHNOLOGY; QYR Electronics Research Center, Dec. 2016

Figure INTEGRATED DEVICE

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