

# Global Analog Front End Market Research Report 2016

<https://marketpublishers.com/r/G6C2D45D464EN.html>

Date: December 2016

Pages: 132

Price: US\$ 2,999.00 (Single User License)

ID: G6C2D45D464EN

## Abstracts

This report studies Analog Front End 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

Analog Devices

Microchip Technology

Company four.

TelCom Semiconductor, Inc

Cyrustek corporation

Maxim Integrated Products

NTE Electronics

STMicroelectronics

EM Microelectronic - MARIN SA

Samsung semiconductor

Vicor Corporation

Burr-Brown Corporation

Integrated Device Technology

Intersil Corporation

Teridian Semiconductor Corporation

Fujitsu Component Limited

NXP Semiconductors

Bothhand USA, LP.

Ams AG

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

Mixed-Signal Transceivers

1 Channel

2 Channels

4 Channels

Wideband Receivers

1 Channel

2 Channels

4 Channels

Wideband Transmitters

1 Channel

2 Channels

4 Channels

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

Metering Devices

Communication Device

Industrial Automation

Space Science

## Military Device

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## 1 Analog Front End Market Overview

### 1.1 Product Overview and Scope of Analog Front End

An analog front-end (AFE or analog front-end controller AFEC) is a set of analog signal conditioning circuitry that uses sensitive analog amplifiers, often operational amplifiers, filters, and sometimes application-specific integrated circuits for sensors, radio receivers, and other circuits to provide a configurable and flexible electronics functional block, needed to interface a variety of sensors to an, antenna, analog to digital converter or in some cases to a microcontroller.

Figure Picture of Analog Front End

Source: QYR Electronics Research Center, Dec. 2016

### 1.2 Analog Front End Segment by Types

#### 1.2.1 Global Production Market Share of Analog Front End by Types in 2015

Figure Global Production Market Share of Analog Front End by Types in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Classification of Analog Front End

Types

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

#### 1.2.2 Mixed-Signal Transceivers

Figure Product Picture of Mixed-Signal Transceivers



Source: QYR Electronics Research Center, Dec. 2016  
Table Major Manufacturers of Mixed-Signal Transceivers  
Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.2.1 1 Channel

1.2.2.2 2 Channels

1.2.2.3 4 Channels

1.2.3 Wideband Receivers

Figure Product Picture of Wideband Receivers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Wideband Receivers

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.3.1 1 Channel

1.2.3.2 2 Channels

1.2.3.3 4 Channels

1.2.4 Wideband Transmitters

Figure Product Picture of Wideband Transmitters

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Wideband Transmitters

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

...

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

1.2.4.1 1 Channel

1.2.4.2 2 Channels

#### 1.2.4.3 4 Channels

### 1.3 Analog Front End Segment by Applications

#### 1.3.1 Analog Front End Consumption Market Share by Applications in 2015

Table Analog Front End Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Applications of Analog Front End

Applications

Feature

Description

1

2

3

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.2 Metering Devices

Metering Devices

Figure Metering Devices Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.3 Communication Device

Communication Device

Figure Communication Device Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.4 Industrial Automation

Industrial Automation

Figure Industrial Automation Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.5 Space Science

Space Science

Figure Space Science Examples

Source: QYR Electronics Research Center, Dec. 2016

#### 1.3.6 Military Device

Military Device

Figure Military 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

1.4.3 Europe Status and Prospect (2011-2021)

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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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Figure India Analog Front End Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronics Research Center, Dec. 2016

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Figure Row Analog Front End Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronics Research Center, Dec. 2016

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Figure Global Analog Front End Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Electronics Research Center, Dec. 2016

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Capacity

2015

2016

Texas Instruments

Analog Devices

Microchip Technology

Company four.

TelCom Semiconductor, Inc

...

Total

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

Table Global Analog Front End Capacity Market Share of Key Manufacturers (2015 and 2016)

Capacity

2015

2016

Texas Instruments

Analog Devices

Microchip Technology

Company four.

TelCom Semiconductor, Inc

...

Total

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

Figure Global Analog Front End Capacity of Key Manufacturers in 2015

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

Figure Global Analog Front End Capacity of Key Manufacturers in 2016

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

Table Global Analog Front End Production of Key Manufacturers (2015 and 2016)

Production

2015

2016

Texas Instruments

Analog Devices

Microchip Technology

Company four.

TelCom Semiconductor, Inc

...

Total

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

Table Global Analog Front End Production Share by Manufacturers (2015 and 2016)

Production Share

2015

2016

Texas Instruments

Analog Devices

...

Total

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

Figure 2015 Analog Front End Production Share by Manufacturers

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

Figure 2016 Analog Front End Production Share by Manufacturers

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

2.2 Global Analog Front End Revenue and Share by Manufacturers (2015 and 2016)

Table Global Analog Front End Revenue (Million USD) by Manufacturers (2015 and 2016)

Revenue

2015

2016

Texas Instruments

Analog Devices

...

Total

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

Table Global Analog Front End Revenue Share by Manufacturers (2015 and 2016)

Revenue Share

2015

2016

Texas Instruments

Analog Devices

...

Total

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

Table 2015 Global Analog Front End Revenue Share by Manufacturers

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

Table 2016 Global Analog Front End Revenue Share by Manufacturers

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

2.3 Global Analog Front End Average Price by Manufacturers (2015 and 2016)

Table Global Market Analog Front End Average Price of Key Manufacturers (2015 and 2016)

2015

2016

Texas Instruments

Analog Devices

...

Total

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

Figure Global Market Analog Front End Average Price of Key Manufacturers in 2015

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

2.4 Manufacturers Analog Front End Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers Analog Front End Manufacturing Base Distribution and Sales Area  
Manufacturing Base Distribution

Sales Area

Texas Instruments

Analog Devices

...

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

Table Manufacturers Analog Front End Product Types

Product Types

Texas Instruments

Analog Devices

...

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

2.5 Analog Front End Market Competitive Situation and Trends?

2.5.1 Analog Front End Market Concentration Rate

2.5.2 Analog Front End Market Share of Top 3 and Top 5 Manufacturers

Figure Analog Front End Market Share of Top 3 Manufacturers

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

Figure Analog Front End Market Share of Top 5 Manufacturers

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

2.5.3 Mergers & Acquisitions, Expansion

3 Global Analog Front End Capacity, Production, Revenue (Value) by Regions  
(2011-2016)

3.1 Global Analog Front End Capacity and Market Share by Regions (2011-2016)

Table Global Analog Front End 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 Analog Front End 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 Analog Front End Capacity Market Share by Regions (2011-2016)**

Source: QYR Electronics Research Center, Dec. 2016

**Figure 2015 Global Analog Front End Capacity Market Share by Regions**

Source: QYR Electronics Research Center, Dec. 2016

**3.2 Global Analog Front End Production and Market Share by Regions (2011-2016)****Table Global Analog Front End 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 Analog Front End 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 Analog Front End Production Market Share by Regions (2011-2016)**

Source: QYR Electronics Research Center, Dec. 2016

**Figure 2015 Global Analog Front End Production Market Share by Regions**

Source: QYR Electronics Research Center, Dec. 2016

**3.3 Global Analog Front End Revenue (Value) and Market Share by Regions (2011-2016)****Table Global Analog Front End 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 Analog Front End 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 Analog Front End Revenue Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

3.4 Global Analog Front End Capacity, Production, Revenue, Price and Gross Margin  
(2011-2016)

Table Global Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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

Table Europe Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table China Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table Japan Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin

(2011-2016)

Table Taiwan Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India Analog Front End 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 Analog Front End Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Analog Front End 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 Analog Front End Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Analog Front End Consumption by Regions (2011-2016)

Table Global Analog Front End 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 Analog Front End 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 Analog Front End Consumption Market Share by Regions (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Global Analog Front End Consumption Market Share by Regions

Source: QYR Electronics Research Center, Dec. 2016

4.2 North America Analog Front End Production, Consumption, Export, Import by Regions (2011-2016)

Table North America Analog Front End 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 Analog Front End Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe Analog Front End 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 Analog Front End Production, Consumption, Export, Import by Regions  
(2011-2016)

Table China Analog Front End 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 Analog Front End Production, Consumption, Export, Import by Regions  
(2011-2016)

Table Japan Analog Front End 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 Analog Front End Production, Consumption, Export, Import by Regions  
(2011-2016)

Table Taiwan Analog Front End 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 Analog Front End Production, Consumption, Export, Import by Regions  
(2011-2016)

Table India Analog Front End Production, Consumption, Import &amp; Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.8 Row Analog Front End Production, Consumption, Export, Import by Regions  
(2011-2016)

Table Row Analog Front End Production, Consumption, Import &amp; Export (2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

Export

Consumption

Source: QYR Electronics Research Center, Dec. 2016



## 5 Global Analog Front End Production, Revenue (Value), Price Trend by Types

### 5.1 Global Analog Front End Production and Market Share by Types (2011-2016)

#### Table Global Analog Front End Production by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Mixed-Signal Transceivers

Wideband Receivers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

#### Table Global Analog Front End Production Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Mixed-Signal Transceivers

Wideband Receivers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

#### Figure Production Market Share of Analog Front End by Types (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

#### Figure 2015 Production Market Share of Analog Front End by Types

Source: QYR Electronics Research Center, Dec. 2016

### 5.2 Global Analog Front End Revenue and Market Share by Types (2011-2016)

#### Table Global Analog Front End Revenue by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Mixed-Signal Transceivers

Wideband Receivers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Table Global Analog Front End Revenue Share by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Mixed-Signal Transceivers

Wideband Receivers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

Figure Production Revenue Share of Analog Front End by Types (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

Figure 2015 Revenue Market Share of Analog Front End by Types

Source: QYR Electronics Research Center, Dec. 2016

5.3 Global Analog Front End Price by Type (2011-2016)

Table Global Analog Front End Price by Types (2011-2016)

2011

2012

2013

2014

2015

2016

Mixed-Signal Transceivers

Wideband Receivers

...

Total

Source: QYR Electronics Research Center, Dec. 2016

5.4 Global Analog Front End Production Growth by Type (2011-2016)

Figure Global Analog Front End Production Growth by Type (2011-2016)

Source: QYR Electronics Research Center, Dec. 2016

6 Global Analog Front End Market Analysis by Applications

6.1 Global Analog Front End Consumption and Market Share by Applications  
(2011-2016)

## Table Global Analog Front End Consumption by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Metering Devices

Communication Device

...

Total

Source: QYR Electronics Research Center, Dec. 2016

## Table Global Analog Front End Consumption Market Share by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Metering Devices

Communication Device

...

Total

Source: QYR Electronics Research Center, Dec. 2016

## Figure Global Analog Front End Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

## 6.2 Global Analog Front End Consumption Growth Rate by Applications (2011-2016)

## Table Global Analog Front End Consumption Growth Rate by Applications (2011-2016)

2011

2012

2013

2014

2015

2016

Metering Devices

Communication Device

...

Source: QYR Electronics Research Center, Dec. 2016

## Figure Global Analog Front End 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 Analog Front End 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 Analog Front End

4

Manufacturing Locations of Analog Front End

5

Analog Front End Sales Area

6

Main Business/Business Overview

7

Contact Information

Source

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