

# Global Hot Swap Controller Market Research Report 2016

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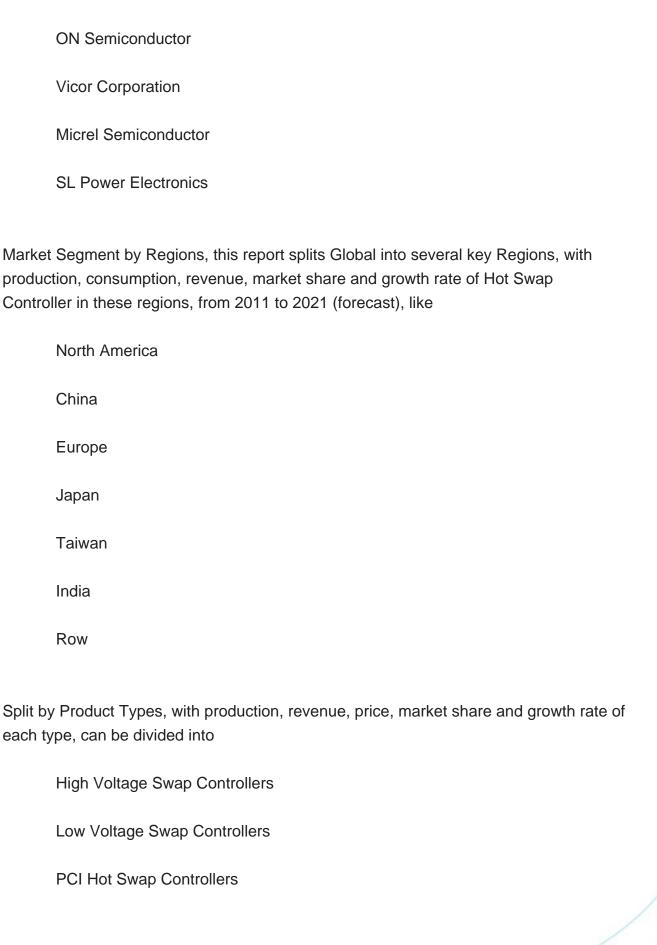
### **Abstracts**

This report studies Hot Swap Controller 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

acturer, covering		
Analog Devices		
Semtech Corporation		
Texas Instruments		
Linear Technology.		
Intersil Corporation		
IXYS Corporation		
Summit Microelectronics, Inc.		
National Semiconductor		
Freescale Semiconductor, Inc		
Supertex, Inc		

Microchip Technology







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

Computer
Server System
Military
Industrial Equipment
Power System



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Global Hot Swap Controller Market Research Report 2016

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1 Hot Swap Controller Market Overview

1.1 Product Overview and Scope of Hot Swap Controller

Hot Swap controllers allow electronic circuit boards and cards to be inserted into live system backplanes, eliminating the need to power them down. Mission critical systems, such as servers and communication equipment, operate continuously as boards are hot plugged in or pulled out, either for system maintenance or to adjust load handling capacity. The basic functions of a Hot Swap controller are inrush current control and fault isolation. When boards are plugged in, the Hot Swap controller detects power first, then ramps up the board's capacitors gently, avoiding connector sparks, backplane supply glitches and system resets. On a downstream short-circuit fault, the controller's



electronic circuit breaker shuts off power to the card, preventing the fault from propagating upstream to the rest of the system. Being the gateway to board power, Hot Swap Controllers have evolved from these two basic functions to also providing sophisticated board power monitoring via digital measurements of the current and voltage levels by integrated ADCs, accessible through I2C/SMBus interfaces.

Figure Picture of Hot Swap Controller

Source: LINEAR Technology, QYR Electronics Research Center, Dec. 2016 1.2 Hot Swap Controller Segment by Types

1.2.1 Global Production Market Share of Hot Swap Controller by Types in 2015 Figure Global Production Market Share of Hot Swap Controller by Types in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Classification of Hot Swap Controller

Types Feature Description 1 2

Source: QYR Electronics Research Center, Dec. 2016

1.2.2 High Voltage Swap Controllers

Figure Product Picture of High Voltage Swap Controllers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of High Voltage Swap Controllers

Manufacturers

Location of Manufacturing Bases/Factories

1 2 3

3

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

1.2.3 Low Voltage Swap Controllers

Figure Product Picture of Low Voltage Swap Controllers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of Low Voltage Swap Controllers

Manufacturers

Location of Manufacturing Bases/Factories

1 2

3



. . .

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

1.2.4 PCI Hot Swap Controllers

Figure Product Picture of PCI Hot Swap Controllers

Source: QYR Electronics Research Center, Dec. 2016

Table Major Manufacturers of PCI Hot Swap Controllers

Manufacturers

Location of Manufacturing Bases/Factories

I

2

3

. . .

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

1.3 Hot Swap Controller Segment by Applications

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Table Hot Swap Controller Consumption Market Share by Applications in 2015

Source: QYR Electronics Research Center, Dec. 2016

Table Applications of Hot Swap Controller

**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 Server System

Server System

Figure Server System Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.4 Military

Military

Figure Military Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.5 Industrial Equipment

Industrial Equipment



Figure Industrial Equipment Examples

Source: QYR Electronics Research Center, Dec. 2016

1.3.6 Power System

Power System

Figure Power System 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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2.1 Global Hot Swap Controller Capacity, Production and Share by Manufacturers (2015 and 2016)



Table Global Hot Swap Controller Capacity of Key Manufacturers (2015 and 2016)

Capacity

2015

2016

**Analog Devices** 

Semtech Corporation

**Texas Instruments** 

Linear Technology.

Intersil Corporation

. . .

Total

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

Table Global Hot Swap Controller Capacity Market Share of Key Manufacturers (2015

and 2016)

Capacity

2015

2016

**Analog Devices** 

Semtech Corporation

**Texas Instruments** 

Linear Technology.

Intersil Corporation

. . .

Total

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

Figure Global Hot Swap Controller Capacity of Key Manufacturers in 2015

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

Figure Global Hot Swap Controller Capacity of Key Manufacturers in 2016

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

Table Global Hot Swap Controller Production of Key Manufacturers (2015 and 2016)

Production

2015

2016

**Analog Devices** 

Semtech Corporation

**Texas Instruments** 

Linear Technology.

Intersil Corporation

. . .



Total

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

Table Global Hot Swap Controller Production Share by Manufacturers (2015 and 2016)

**Production Share** 

20152016

**Analog Devices** 

Semtech Corporation

. . .

Total

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

Figure 2015 Hot Swap Controller Production Share by Manufacturers

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

Figure 2016 Hot Swap Controller Production Share by Manufacturers

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

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2016)

Revenue

2015

2016

**Analog Devices** 

Semtech Corporation

. . .

Total

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

Table Global Hot Swap Controller Revenue Share by Manufacturers (2015 and 2016)

Revenue Share

2015

2016

**Analog Devices** 

Semtech Corporation

. . .

Total

Source: Above companies; QYR Electronics Research Center, Dec. 2016 Table 2015 Global Hot Swap Controller Revenue Share by Manufacturers Source: Above companies; QYR Electronics Research Center, Dec. 2016 Table 2016 Global Hot Swap Controller Revenue Share by Manufacturers Source: Above companies; QYR Electronics Research Center, Dec. 2016



2.3 Global Hot Swap Controller Average Price by Manufacturers (2015 and 2016) Table Global Market Hot Swap Controller Average Price of Key Manufacturers (2015 and 2016)

2015

2016

**Analog Devices** 

Semtech Corporation

. . .

Total

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

Figure Global Market Hot Swap Controller Average Price of Key Manufacturers in 2015

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

2.4 Manufacturers Hot Swap Controller Manufacturing Base Distribution, Sales Area,

Product Types

Table Manufacturers Hot Swap Controller Manufacturing Base Distribution and Sales

Area

Manufacturing Base Distribution

Sales Area

**Analog Devices** 

Semtech Corporation

. . .

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

Table Manufacturers Hot Swap Controller Product Types

**Product Types** 

**Analog Devices** 

Semtech Corporation

. . .

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

2.5 Hot Swap Controller Market Competitive Situation and Trends?

2.5.1 Hot Swap Controller Market Concentration Rate

2.5.2 Hot Swap Controller Market Share of Top 3 and Top 5 Manufacturers

Figure Hot Swap Controller Market Share of Top 3 Manufacturers

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

Figure Hot Swap Controller Market Share of Top 5 Manufacturers

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

2.5.3 Mergers & Acquisitions, Expansion

3 Global Hot Swap Controller Capacity, Production, Revenue (Value) by Regions (2011-2016)

3.1 Global Hot Swap Controller Capacity and Market Share by Regions (2011-2016)



Table Global Hot Swap Controller 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 Hot Swap Controller 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 Hot Swap Controller Capacity Market Share by Regions (2011-2016)
Source: QYR Electronics Research Center, Dec. 2016
Figure 2015 Global Hot Swap Controller Capacity Market Share by Regions
Source: QYR Electronics Research Center, Dec. 2016
3.2 Global Hot Swap Controller Production and Market Share by Regions (2011-2016)



Table Global Hot Swap Controller 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 Hot Swap Controller 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 Hot Swap Controller Production Market Share by Regions (2011-2016)
Source: QYR Electronics Research Center, Dec. 2016
Figure 2015 Global Hot Swap Controller Production Market Share by Regions
Source: QYR Electronics Research Center, Dec. 2016



3.3 Global Hot Swap Controller Revenue (Value) and Market Share by Regions (2011-2016)Table Global Hot Swap Controller 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 Hot Swap Controller 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 Hot Swap Controller Revenue Market Share by Regions Source: QYR Electronics Research Center, Dec. 2016

3.4 Global Hot Swap Controller Capacity, Production, Revenue, Price and Gross Margin







Table Europe Hot Swap Controller 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 Hot Swap Controller Capacity, Production, Revenue, Price and Gross Margin (2011-2016)Table China Hot Swap Controller 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 Hot Swap Controller Capacity, Production, Revenue, Price and Gross Margin (2011-2016)Table Japan Hot Swap Controller 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 Hot Swap Controller Capacity, Production, Revenue, Price and Gross
Margin (2011-2016)
Table Taiwan Hot Swap Controller 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 Hot Swap Controller Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)
Table India Hot Swap Controller 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 Hot Swap Controller Capacity, Production, Revenue, Price and Gross Margin
(2011-2016)
Table Row Hot Swap Controller 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 Hot Swap Controller Supply (Production), Consumption, Export, Import by
Regions (2011-2016)
4.1 Global Hot Swap Controller Consumption by Regions (2011-2016)
Table Global Hot Swap Controller 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 Hot Swap Controller 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 Hot Swap Controller Consumption Market Share by Regions (2011-2016)
Source: QYR Electronics Research Center, Dec. 2016
Figure 2015 Global Hot Swap Controller Consumption Market Share by Regions
Source: QYR Electronics Research Center, Dec. 2016
4.2North America Hot Swap Controller Production, Consumption, Export, Import by
Regions (2011-2016)
Table North America Hot Swap Controller Production, Consumption, Import & Export
The state of the s



(2011-2016)
2011
2012
2013
2014
2015
2016
Production
Import
Export
Consumption
Source: QYR Electronics Research Center, Dec. 2016
4.3 Europe Hot Swap Controller Production, Consumption, Export, Import by Regions
(2011-2016)
Table Europe Hot Swap Controller 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 Hot Swap Controller Production, Consumption, Export, Import by Regions
(2011-2016)
Table China Hot Swap Controller 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 Hot Swap Controller Production, Consumption, Export, Import by Regions (2011-2016)Table Japan Hot Swap Controller 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 Hot Swap Controller Production, Consumption, Export, Import by Regions

Table Taiwan Hot Swap Controller Production, Consumption, Import & Export

(2011-2016)

(2011-2016)

2011

2012

2013

2014

2015

2016

Production

Import

**Export** 

Consumption

Source: QYR Electronics Research Center, Dec. 2016

4.7 India Hot Swap Controller Production, Consumption, Export, Import by Regions (2011-2016)

Table India Hot Swap Controller 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 Hot Swap Controller Production, Consumption, Export, Import by Regions	
(2011-2016)	
Table Row Hot Swap Controller 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 Hot Swap Controller Production, Revenue (Value), Price Trend by Types	
5.1 Global Hot Swap Controller Production and Market Share by Types (2011-2016)	
Table Global Hot Swap Controller Production by Types (2011-2016)	
2011	
2012	
2013	
2014	
2015	
2016	
High Voltage Swap Controllers	
Low Voltage Swap Controllers	
Total	
Source: QYR Electronics Research Center, Dec. 2016	
Table Global Hot Swap Controller Production Share by Types (2011-2016)	
2011	
2012	



```
2013
2014
2015
2016
High Voltage Swap Controllers
Low Voltage Swap Controllers
. . .
Total
Source: QYR Electronics Research Center, Dec. 2016
Figure Production Market Share of Hot Swap Controller by Types (2011-2016)
Source: QYR Electronics Research Center, Dec. 2016
Figure 2015 Production Market Share of Hot Swap Controller by Types
Source: QYR Electronics Research Center, Dec. 2016
5.2 Global Hot Swap Controller Revenue and Market Share by Types (2011-2016)
Table Global Hot Swap Controller Revenue by Types (2011-2016)
2011
2012
2013
2014
2015
2016
High Voltage Swap Controllers
Low Voltage Swap Controllers
. . .
Total
Source: QYR Electronics Research Center, Dec. 2016
Table Global Hot Swap Controller Revenue Share by Types (2011-2016)
2011
2012
2013
2014
2015
2016
High Voltage Swap Controllers
Low Voltage Swap Controllers
. . .
Total
Source: QYR Electronics Research Center, Dec. 2016
```

Figure Production Revenue Share of Hot Swap Controller by Types (2011-2016)



Source: QYR Electronics Research Center, Dec. 2016 Figure 2015 Revenue Market Share of Hot Swap Controller by Types Source: QYR Electronics Research Center, Dec. 2016 5.3 Global Hot Swap Controller Price by Type (2011-2016) Table Global Hot Swap Controller Price by Types (2011-2016) 2011 2012 2013 2014 2015 2016 High Voltage Swap Controllers Low Voltage Swap Controllers Total Source: QYR Electronics Research Center, Dec. 2016 5.4 Global Hot Swap Controller Production Growth by Type (2011-2016) Figure Global Hot Swap Controller Production Growth by Type (2011-2016) Source: QYR Electronics Research Center, Dec. 2016 6 Global Hot Swap Controller Market Analysis by Applications 6.1 Global Hot Swap Controller Consumption and Market Share by Applications (2011-2016)Table Global Hot Swap Controller Consumption by Applications (2011-2016) 2011 2012 2013 2014 2015 2016 Computer Server System Total Source: QYR Electronics Research Center, Dec. 2016 Table Global Hot Swap Controller Consumption Market Share by Applications (2011-2016)2011

20122013



2014

2015

2016

Computer

Server System

. . .

Total

Source: QYR Electronics Research Center, Dec. 2016 Figure Global Hot Swap Controller Consumption Mar



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