

# 2020-2025 Global Microswitch Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

<https://marketpublishers.com/r/2D25ADDDDB09DEN.html>

Date: August 2021

Pages: 127

Price: US\$ 3,360.00 (Single User License)

ID: 2D25ADDDDB09DEN

## Abstracts

This report elaborates the market size, market characteristics, and market growth of the Microswitch industry, and breaks down according to the type, application, and consumption area of Microswitch. The report also conducted a PESTEL analysis of the industry to study the main influencing factors and entry barriers of the industry.

In Chapter 3.4 of the report, the impact of the COVID-19 outbreak on the industry was fully assessed. Fully risk assessment and industry recommendations were made for Microswitch in a special period. This chapter also compares the markets of Pre COVID-19 and Post COVID-19.

In addition, chapters 8-12 consider the impact of COVID-19 on the regional economy.

Key players in the global Microswitch market covered in Chapter 13:

Tengfei

CHERRY

ZIPPY

SCI

Johnson Electric(Burgess)

Alps

Kaihua

Camsco

Greetech

Xurui

TROX

Honeywell

Solteam

## Panasonic

TTC

Tend

Omron

Salecom

C&K

NTE

In Chapter 6, on the basis of types, the Microswitch market from 2015 to 2025 is primarily split into:

Standard Type

Ultraminiature Type

Sub-miniature Type

In Chapter 7, on the basis of applications, the Microswitch market from 2015 to 2025 covers:

Electronic Equipment

Instrument

Power System

Geographically, the detailed analysis of production, trade of the following countries is covered in Chapter 4.2, 5:

United States

Europe

China

Japan

India

Geographically, the detailed analysis of consumption, revenue, market share and growth rate of the following regions are covered in Chapter 8, 9, 10, 11, 12:

North America (Covered in Chapter 8)

United States

Canada

Mexico

Europe (Covered in Chapter 9)

Germany

UK

France

Italy

Spain  
Others  
Asia-Pacific (Covered in Chapter 10)  
China  
Japan  
India  
South Korea  
Southeast Asia  
Others  
Middle East and Africa (Covered in Chapter 11)  
Saudi Arabia  
UAE  
South Africa  
Others  
South America (Covered in Chapter 12)  
Brazil  
Others

Years considered for this report:

Historical Years: 2015-2019

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2020-2025

## Contents

### **1 MICROSWITCH MARKET - RESEARCH SCOPE**

- 1.1 Study Goals
- 1.2 Market Definition and Scope
- 1.3 Key Market Segments
- 1.4 Study and Forecasting Years

### **2 MICROSWITCH MARKET - RESEARCH METHODOLOGY**

- 2.1 Methodology
- 2.2 Research Data Source
  - 2.2.1 Secondary Data
  - 2.2.2 Primary Data
  - 2.2.3 Market Size Estimation
  - 2.2.4 Legal Disclaimer

### **3 MICROSWITCH MARKET FORCES**

- 3.1 Global Microswitch Market Size
- 3.2 Top Impacting Factors (PESTEL Analysis)
  - 3.2.1 Political Factors
  - 3.2.2 Economic Factors
  - 3.2.3 Social Factors
  - 3.2.4 Technological Factors
  - 3.2.5 Environmental Factors
  - 3.2.6 Legal Factors
- 3.3 Industry Trend Analysis
- 3.4 Industry Trends Under COVID-19
  - 3.4.1 Risk Assessment on COVID-19
  - 3.4.2 Assessment of the Overall Impact of COVID-19 on the Industry
  - 3.4.3 Pre COVID-19 and Post COVID-19 Market Scenario
- 3.5 Industry Risk Assessment

### **4 MICROSWITCH MARKET - BY GEOGRAPHY**

- 4.1 Global Microswitch Market Value and Market Share by Regions
  - 4.1.1 Global Microswitch Value (\$) by Region (2015-2020)

- 4.1.2 Global Microswitch Value Market Share by Regions (2015-2020)
- 4.2 Global Microswitch Market Production and Market Share by Major Countries
  - 4.2.1 Global Microswitch Production by Major Countries (2015-2020)
  - 4.2.2 Global Microswitch Production Market Share by Major Countries (2015-2020)
- 4.3 Global Microswitch Market Consumption and Market Share by Regions
  - 4.3.1 Global Microswitch Consumption by Regions (2015-2020)
  - 4.3.2 Global Microswitch Consumption Market Share by Regions (2015-2020)

## **5 MICROSWITCH MARKET - BY TRADE STATISTICS**

- 5.1 Global Microswitch Export and Import
- 5.2 United States Microswitch Export and Import (2015-2020)
- 5.3 Europe Microswitch Export and Import (2015-2020)
- 5.4 China Microswitch Export and Import (2015-2020)
- 5.5 Japan Microswitch Export and Import (2015-2020)
- 5.6 India Microswitch Export and Import (2015-2020)
- 5.7 ...

## **6 MICROSWITCH MARKET - BY TYPE**

- 6.1 Global Microswitch Production and Market Share by Types (2015-2020)
  - 6.1.1 Global Microswitch Production by Types (2015-2020)
  - 6.1.2 Global Microswitch Production Market Share by Types (2015-2020)
- 6.2 Global Microswitch Value and Market Share by Types (2015-2020)
  - 6.2.1 Global Microswitch Value by Types (2015-2020)
  - 6.2.2 Global Microswitch Value Market Share by Types (2015-2020)
- 6.3 Global Microswitch Production, Price and Growth Rate of Standard Type (2015-2020)
- 6.4 Global Microswitch Production, Price and Growth Rate of Ultraminiature Type (2015-2020)
- 6.5 Global Microswitch Production, Price and Growth Rate of Sub-miniature Type (2015-2020)

## **7 MICROSWITCH MARKET - BY APPLICATION**

- 7.1 Global Microswitch Consumption and Market Share by Applications (2015-2020)
  - 7.1.1 Global Microswitch Consumption by Applications (2015-2020)
  - 7.1.2 Global Microswitch Consumption Market Share by Applications (2015-2020)
- 7.2 Global Microswitch Consumption and Growth Rate of Electronic Equipment

(2015-2020)

7.3 Global Microswitch Consumption and Growth Rate of Instrument (2015-2020)

7.4 Global Microswitch Consumption and Growth Rate of Power System (2015-2020)

## **8 NORTH AMERICA MICROSWITCH MARKET**

8.1 North America Microswitch Market Size

8.2 United States Microswitch Market Size

8.3 Canada Microswitch Market Size

8.4 Mexico Microswitch Market Size

8.5 The Influence of COVID-19 on North America Market

## **9 EUROPE MICROSWITCH MARKET ANALYSIS**

9.1 Europe Microswitch Market Size

9.2 Germany Microswitch Market Size

9.3 United Kingdom Microswitch Market Size

9.4 France Microswitch Market Size

9.5 Italy Microswitch Market Size

9.6 Spain Microswitch Market Size

9.7 The Influence of COVID-19 on Europe Market

## **10 ASIA-PACIFIC MICROSWITCH MARKET ANALYSIS**

10.1 Asia-Pacific Microswitch Market Size

10.2 China Microswitch Market Size

10.3 Japan Microswitch Market Size

10.4 South Korea Microswitch Market Size

10.5 Southeast Asia Microswitch Market Size

10.6 India Microswitch Market Size

10.7 The Influence of COVID-19 on Asia Pacific Market

## **11 MIDDLE EAST AND AFRICA MICROSWITCH MARKET ANALYSIS**

11.1 Middle East and Africa Microswitch Market Size

11.2 Saudi Arabia Microswitch Market Size

11.3 UAE Microswitch Market Size

11.4 South Africa Microswitch Market Size

11.5 The Influence of COVID-19 on Middle East and Africa Market

## **12 SOUTH AMERICA MICROSWITCH MARKET ANALYSIS**

- 12.1 South America Microswitch Market Size
- 12.2 Brazil Microswitch Market Size
- 12.3 The Influence of COVID-19 on South America Market

## **13 COMPANY PROFILES**

- 13.1 Tengfei
  - 13.1.1 Tengfei Basic Information
  - 13.1.2 Tengfei Product Profiles, Application and Specification
  - 13.1.3 Tengfei Microswitch Market Performance (2015-2020)
- 13.2 CHERRY
  - 13.2.1 CHERRY Basic Information
  - 13.2.2 CHERRY Product Profiles, Application and Specification
  - 13.2.3 CHERRY Microswitch Market Performance (2015-2020)
- 13.3 ZIPPY
  - 13.3.1 ZIPPY Basic Information
  - 13.3.2 ZIPPY Product Profiles, Application and Specification
  - 13.3.3 ZIPPY Microswitch Market Performance (2015-2020)
- 13.4 SCI
  - 13.4.1 SCI Basic Information
  - 13.4.2 SCI Product Profiles, Application and Specification
  - 13.4.3 SCI Microswitch Market Performance (2015-2020)
- 13.5 Johnson Electric(Burgess)
  - 13.5.1 Johnson Electric(Burgess) Basic Information
  - 13.5.2 Johnson Electric(Burgess) Product Profiles, Application and Specification
  - 13.5.3 Johnson Electric(Burgess) Microswitch Market Performance (2015-2020)
- 13.6 Alps
  - 13.6.1 Alps Basic Information
  - 13.6.2 Alps Product Profiles, Application and Specification
  - 13.6.3 Alps Microswitch Market Performance (2015-2020)
- 13.7 Kaihua
  - 13.7.1 Kaihua Basic Information
  - 13.7.2 Kaihua Product Profiles, Application and Specification
  - 13.7.3 Kaihua Microswitch Market Performance (2015-2020)
- 13.8 Camsco
  - 13.8.1 Camsco Basic Information

- 13.8.2 Camsco Product Profiles, Application and Specification
- 13.8.3 Camsco Microswitch Market Performance (2015-2020)
- 13.9 Greetech
  - 13.9.1 Greetech Basic Information
  - 13.9.2 Greetech Product Profiles, Application and Specification
  - 13.9.3 Greetech Microswitch Market Performance (2015-2020)
- 13.10 Xurui
  - 13.10.1 Xurui Basic Information
  - 13.10.2 Xurui Product Profiles, Application and Specification
  - 13.10.3 Xurui Microswitch Market Performance (2015-2020)
- 13.11 TROX
  - 13.11.1 TROX Basic Information
  - 13.11.2 TROX Product Profiles, Application and Specification
  - 13.11.3 TROX Microswitch Market Performance (2015-2020)
- 13.12 Honeywell
  - 13.12.1 Honeywell Basic Information
  - 13.12.2 Honeywell Product Profiles, Application and Specification
  - 13.12.3 Honeywell Microswitch Market Performance (2015-2020)
- 13.13 Solteam
  - 13.13.1 Solteam Basic Information
  - 13.13.2 Solteam Product Profiles, Application and Specification
  - 13.13.3 Solteam Microswitch Market Performance (2015-2020)
- 13.14 Panasonic
  - 13.14.1 Panasonic Basic Information
  - 13.14.2 Panasonic Product Profiles, Application and Specification
  - 13.14.3 Panasonic Microswitch Market Performance (2015-2020)
- 13.15 TTC
  - 13.15.1 TTC Basic Information
  - 13.15.2 TTC Product Profiles, Application and Specification
  - 13.15.3 TTC Microswitch Market Performance (2015-2020)
- 13.16 Tend
  - 13.16.1 Tend Basic Information
  - 13.16.2 Tend Product Profiles, Application and Specification
  - 13.16.3 Tend Microswitch Market Performance (2015-2020)
- 13.17 Omron
  - 13.17.1 Omron Basic Information
  - 13.17.2 Omron Product Profiles, Application and Specification
  - 13.17.3 Omron Microswitch Market Performance (2015-2020)
- 13.18 Salecom



- 13.18.1 Salecom Basic Information
- 13.18.2 Salecom Product Profiles, Application and Specification
- 13.18.3 Salecom Microswitch Market Performance (2015-2020)
- 13.19 C&K
  - 13.19.1 C&K Basic Information
  - 13.19.2 C&K Product Profiles, Application and Specification
  - 13.19.3 C&K Microswitch Market Performance (2015-2020)
- 13.20 NTE
  - 13.20.1 NTE Basic Information
  - 13.20.2 NTE Product Profiles, Application and Specification
  - 13.20.3 NTE Microswitch Market Performance (2015-2020)

## **14 MARKET FORECAST - BY REGIONS**

- 14.1 North America Microswitch Market Forecast (2020-2025)
- 14.2 Europe Microswitch Market Forecast (2020-2025)
- 14.3 Asia-Pacific Microswitch Market Forecast (2020-2025)
- 14.4 Middle East and Africa Microswitch Market Forecast (2020-2025)
- 14.5 South America Microswitch Market Forecast (2020-2025)

## **15 MARKET FORECAST - BY TYPE AND APPLICATIONS**

- 15.1 Global Microswitch Market Forecast by Types (2020-2025)
  - 15.1.1 Global Microswitch Market Forecast Production and Market Share by Types (2020-2025)
  - 15.1.2 Global Microswitch Market Forecast Value and Market Share by Types (2020-2025)
- 15.2 Global Microswitch Market Forecast by Applications (2020-2025)

## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Microswitch Picture

Table Microswitch Key Market Segments

Figure Study and Forecasting Years

Figure Global Microswitch Market Size and Growth Rate 2015-2025

Figure Industry PESTEL Analysis

Figure Global COVID-19 Status

Figure Market Size Forecast Comparison of Pre COVID-19 and Post COVID-19

Figure Global Microswitch Value (\$) and Growth Rate (2015-2020)

Table Global Microswitch Value (\$) by Countries (2015-2020)

Table Global Microswitch Value Market Share by Regions (2015-2020)

Figure Global Microswitch Value Market Share by Regions in 2019

Figure Global Microswitch Production and Growth Rate (2015-2020)

Table Global Microswitch Production by Major Countries (2015-2020)

Table Global Microswitch Production Market Share by Major Countries (2015-2020)

Figure Global Microswitch Production Market Share by Regions in 2019

Figure Global Microswitch Consumption and Growth Rate (2015-2020)

Table Global Microswitch Consumption by Regions (2015-2020)

Table Global Microswitch Consumption Market Share by Regions (2015-2020)

Figure Global Microswitch Consumption Market Share by Regions in 2019

Table Global Microswitch Export Top 3 Country 2019

Table Global Microswitch Import Top 3 Country 2019

Table United States Microswitch Export and Import (2015-2020)

Table Europe Microswitch Export and Import (2015-2020)

Table China Microswitch Export and Import (2015-2020)

Table Japan Microswitch Export and Import (2015-2020)

Table India Microswitch Export and Import (2015-2020)

Table Global Microswitch Production by Types (2015-2020)

Table Global Microswitch Production Market Share by Types (2015-2020)

Figure Global Microswitch Production Share by Type (2015-2020)

Table Global Microswitch Value by Types (2015-2020)

Table Global Microswitch Value Market Share by Types (2015-2020)

Figure Global Microswitch Value Share by Type (2015-2020)

Figure Global Standard Type Production and Growth Rate (2015-2020)

Figure Global Standard Type Price (2015-2020)

Figure Global Ultraminiature Type Production and Growth Rate (2015-2020)

Figure Global Ultraminiature Type Price (2015-2020)  
Figure Global Sub-miniature Type Production and Growth Rate (2015-2020)  
Figure Global Sub-miniature Type Price (2015-2020)  
Table Global Microswitch Consumption by Applications (2015-2020)  
Table Global Microswitch Consumption Market Share by Applications (2015-2020)  
Figure Global Microswitch Consumption Share by Application (2015-2020)  
Figure Global Electronic Equipment Consumption and Growth Rate (2015-2020)  
Figure Global Instrument Consumption and Growth Rate (2015-2020)  
Figure Global Power System Consumption and Growth Rate (2015-2020)  
Figure North America Microswitch Market Consumption and Growth Rate (2015-2020)  
Table North America Microswitch Consumption by Countries (2015-2020)  
Table North America Microswitch Consumption Market Share by Countries (2015-2020)  
Figure North America Microswitch Consumption Market Share by Countries (2015-2020)  
Figure United States Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Canada Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Mexico Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure North America COVID-19 Status  
Figure Europe Microswitch Market Consumption and Growth Rate (2015-2020)  
Table Europe Microswitch Consumption by Countries (2015-2020)  
Table Europe Microswitch Consumption Market Share by Countries (2015-2020)  
Figure Europe Microswitch Consumption Market Share by Countries (2015-2020)  
Figure Germany Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure United Kingdom Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure France Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Italy Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Spain Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Europe COVID-19 Status  
Figure Asia-Pacific Microswitch Market Consumption and Growth Rate (2015-2020)  
Table Asia-Pacific Microswitch Consumption by Countries (2015-2020)  
Table Asia-Pacific Microswitch Consumption Market Share by Countries (2015-2020)  
Figure Asia-Pacific Microswitch Consumption Market Share by Countries (2015-2020)  
Figure China Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Japan Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure South Korea Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Southeast Asia Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure India Microswitch Market Consumption and Growth Rate (2015-2020)  
Figure Asia Pacific COVID-19 Status  
Figure Middle East and Africa Microswitch Market Consumption and Growth Rate

(2015-2020)

Table Middle East and Africa Microswitch Consumption by Countries (2015-2020)

Table Middle East and Africa Microswitch Consumption Market Share by Countries (2015-2020)

Figure Middle East and Africa Microswitch Consumption Market Share by Countries (2015-2020)

Figure Saudi Arabia Microswitch Market Consumption and Growth Rate (2015-2020)

Figure UAE Microswitch Market Consumption and Growth Rate (2015-2020)

Figure South Africa Microswitch Market Consumption and Growth Rate (2015-2020)

Figure South America Microswitch Market Consumption and Growth Rate (2015-2020)

Table South America Microswitch Consumption by Countries (2015-2020)

Table South America Microswitch Consumption Market Share by Countries (2015-2020)

Figure South America Microswitch Consumption Market Share by Countries (2015-2020)

Figure Brazil Microswitch Market Consumption and Growth Rate (2015-2020)

Table Tengfei Company Profile

Table Tengfei Production, Value, Price, Gross Margin 2015-2020

Figure Tengfei Production and Growth Rate

Figure Tengfei Value (\$) Market Share 2015-2020

Table CHERRY Company Profile

Table CHERRY Production, Value, Price, Gross Margin 2015-2020

Figure CHERRY Production and Growth Rate

Figure CHERRY Value (\$) Market Share 2015-2020

Table ZIPPY Company Profile

Table ZIPPY Production, Value, Price, Gross Margin 2015-2020

Figure ZIPPY Production and Growth Rate

Figure ZIPPY Value (\$) Market Share 2015-2020

Table SCI Company Profile

Table SCI Production, Value, Price, Gross Margin 2015-2020

Figure SCI Production and Growth Rate

Figure SCI Value (\$) Market Share 2015-2020

Table Johnson Electric(Burgess) Company Profile

Table Johnson Electric(Burgess) Production, Value, Price, Gross Margin 2015-2020

Figure Johnson Electric(Burgess) Production and Growth Rate

Figure Johnson Electric(Burgess) Value (\$) Market Share 2015-2020

Table Alps Company Profile

Table Alps Production, Value, Price, Gross Margin 2015-2020

Figure Alps Production and Growth Rate

Figure Alps Value (\$) Market Share 2015-2020

Table Kaihua Company Profile

Table Kaihua Production, Value, Price, Gross Margin 2015-2020

Figure Kaihua Production and Growth Rate

Figure Kaihua Value (\$) Market Share 2015-2020

Table Camsco Company Profile

Table Camsco Production, Value, Price, Gross Margin 2015-2020

Figure Camsco Production and Growth Rate

Figure Camsco Value (\$) Market Share 2015-2020

Table Greetech Company Profile

Table Greetech Production, Value, Price, Gross Margin 2015-2020

Figure Greetech Production and Growth Rate

Figure Greetech Value (\$) Market Share 2015-2020

Table Xurui Company Profile

Table Xurui Production, Value, Price, Gross Margin 2015-2020

Figure Xurui Production and Growth Rate

Figure Xurui Value (\$) Market Share 2015-2020

Table TROX Company Profile

Table TROX Production, Value, Price, Gross Margin 2015-2020

Figure TROX Production and Growth Rate

Figure TROX Value (\$) Market Share 2015-2020

Table Honeywell Company Profile

Table Honeywell Production, Value, Price, Gross Margin 2015-2020

Figure Honeywell Production and Growth Rate

Figure Honeywell Value (\$) Market Share 2015-2020

Table Solteam Company Profile

Table Solteam Production, Value, Price, Gross Margin 2015-2020

Figure Solteam Production and Growth Rate

Figure Solteam Value (\$) Market Share 2015-2020

Table Panasonic Company Profile

Table Panasonic Production, Value, Price, Gross Margin 2015-2020

Figure Panasonic Production and Growth Rate

Figure Panasonic Value (\$) Market Share 2015-2020

Table TTC Company Profile

Table TTC Production, Value, Price, Gross Margin 2015-2020

Figure TTC Production and Growth Rate

Figure TTC Value (\$) Market Share 2015-2020

Table Tend Company Profile

Table Tend Production, Value, Price, Gross Margin 2015-2020

Figure Tend Production and Growth Rate



Figure Tend Value (\$) Market Share 2015-2020

Table Omron Company Profile

Table Omron Production, Value, Price, Gross Margin 2015-2020

Figure Omron Production and Growth Rate

Figure Omron Value (\$) Market Share 2015-2020

Table Salecom Company Profile

Table Salecom Production, Value, Price, Gross Margin 2015-2020

Figure Salecom Production and Growth Rate

Figure Salecom Value (\$) Market Share 2015-2020

Table C&K Company Profile

Table C&K Production, Value, Price, Gross Margin 2015-2020

Figure C&K Production and Growth Rate

Figure C&K Value (\$) Market Share 2015-2020

Table NTE Company Profile

Table NTE Production, Value, Price, Gross Margin 2015-2020

Figure NTE Production and Growth Rate

Figure NTE Value (\$) Market Share 2015-2020

Figure North America Market Consumption and Growth Rate Forecast (2020-2025)

Figure Europe Market Consumption and Growth Rate Forecast (2020-2025)

Figure Asia-Pacific Market Consumption and Growth Rate Forecast (2020-2025)

Figure Middle East and Africa Market Consumption and Growth Rate Forecast (2020-2025)

Figure South America Market Consumption and Growth Rate Forecast (2020-2025)

Table Global Microswitch Market Forecast Production by Types (2020-2025)

Table Global Microswitch Market Forecast Production Share by Types (2020-2025)

Table Global Microswitch Market Forecast Value (\$) by Types (2020-2025)

Table Global Microswitch Market Forecast Value Share by Types (2020-2025)

Table Global Microswitch Market Forecast Consumption by Applications (2020-2025)

Table Global Microswitch Market Forecast Consumption Share by Applications (2020-2025)

## I would like to order

Product name: 2020-2025 Global Microswitch Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

Product link: <https://marketpublishers.com/r/2D25ADDDDB09DEN.html>

Price: US\$ 3,360.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/2D25ADDDDB09DEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

