Microcontroller Market Tracker

Part of the Semiconductor Components Service Area Package
A unique source of semiannual guidance on this valuable and competitive market. Whether you design, manufacture or distribute MCUs, MCU intellectual property, the tools to design them, the software that gives them purpose, or just the capital investment to make it all happen, this report is essential for a competitive understanding of the entire microcontroller ecosystem.

“Microcontrollers ship four times as many units as MPUs and SoCs combined every year, and they are used in IoT, ADAS solutions, and AI at the edge, making them a key part of the big technologies predicted to drive the semiconductor industry throughout the decade.”

Chris Morris
Senior Research Analyst
Microcontroller Market Tracker

Part of the Semiconductor Components Service Area Package

HOW OMDIA HELPS YOU

• Offers unique insights into features not found in the typical market report – quantitative analysis by function, I/O & subsystems, frequency, memory, node, multicore and more

• Includes four years of historical data and five years of forecast

KEY QUESTIONS ADDRESSED

• What are the top MCU markets by market size? By growth opportunity?

• Who are the application market leaders?

• What is a “core IP ecosystem” and why is it important?

• Where can I locate MCU vendors and the kind of products they sell?

• How can I evaluate what regions to target for my 8-bit wireless MCU?

• Are all MCUs migrating to 32-bit? Why or why not?

• What are the top MCU design features?

• Where do MCUs compete with other System-on-Chips? Who’s winning?
Semiconductor Components: Our Expert Analysts

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DETAILS

Frequency:
- 5-year annual forecast (2021 – 2025)
- Base historic years (2017 – 2020)

Measures
- Revenues, Units, ASP and Growth Rates
- Supplier Market Shares: By Class, Market and Region
- MCU Revenue per Core IP by Market

Regions
- North America
- EMEA
- APAC & Japan

COVERAGE

Historical Data and Forecast by:
- Class (4-bit, 8-bit, 16-bit and 32-bit)
- Vertical markets
- Region (Europe, Middle East, North America)

Vertical Markets Covered
Automotive Electronics
Powertrain, Body and Convenience, Chassis and Safety, ADAS, Infotainment and Other Automotive

Consumer Electronics
- 11 applications

Industrial Electronics
Automation, Power and Energy, Building and Home Control, Medical Electronics, Security and Video Surveillance, Military and Civil Aerospace, Test and Measurement, and Other Industrial

Wired Communications
- 14 applications

Wireless Communications
- 9 applications

APPLICABLE TO
- MCU suppliers
- Foundry Services
- Embedded and Core IP providers
- Operating system vendors
- Software developers
- Related component suppliers
- (Sensors, Transceiver, etc.)
- Connectivity solutions specialists
- Portable device designers
- OEM/ODM Design Engineers
- Embedded Security Specialists
- IoT Developers
- Technology Investors
- Automotive, Industrial, Connectivity and other Electronics Standards
- Bodies
DATABASE CONTENT SUMMARY

Component & Sector Forecasts

MCU Class Annual Summaries
- Rev, Growth & Share
- Rev, Units & ASP

Market Annual Summaries
- Rev, Growth & Share
- Rev, Units & ASP

MCU Class Quarterly Summaries
- Rev, Growth & Share
- Rev, Units & ASP

Market Quarterly Summaries
- Rev, Growth & Share
- Rev, Units & ASP

Six Detailed Market Application Tables
- Automotive Electronics
- Computing & Data Storage
- Consumer Electronics
- Industrial Electronics
- Wired Communications
- Wireless Communications
  - Rev, Growth & Share
  - Rev, Units & ASP

Application/Technology Highlights
- IoT Forecast by 8/16-bit & 32-bit
- Top Volume Applications
- Top Growth Opportunities

TABLE OF CONTENTS

The Microcontroller Market Tracker Report is presented in presentation layout style with qualitative highlights of the data presented in the associated database. It includes dozens of graphs and key topical discussions as well as a featured topical market dynamic in each edition.

Executive Summary
Microcontroller Tracker Introduction
Featured Topic (varies by edition)
Microcontroller Market Overview
Annual Performance by Market
- Automotive Electronics
- Computing & Data Storage
- Consumer Electronics
- Industrial Electronics
- Wired Communications
- Wireless Communications

Regional Highlights
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- Regional Market Shares
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- Revenue by I/O Characteristics
  - By Class and Market
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Additional Tables
- Pivot Table and Forecast Pivot Data
- Market, Application and Class Definitions

Microcontroller Application Trends
Competitive Landscape
Microcontroller Design Trends
Appendix – Market/Class Definitions

Microcontroller Market Tracker | MSCD-101080
Related Content: Semiconductor Components Service Area Coverage

About Omdia’s Semiconductor Components Research

Omdia’s leading semiconductor components research is provided by a highly experienced team of analysts. Many are industry veterans with deep technical background as well as hands-on market and product experience in their coverage area. The key component areas of processors and microcontrollers, MEMS and sensors, power discretes and modules, power ICs, LED and optical components are covered across numerous device categories and applications.

Their expertise is augmented and supported by the wide array of end equipment application and demand reporting, semiconductor manufacturing tracking and forecasting and spotlight services such as the semiconductor competitive landscape tool, the application market forecast tracker, the China semiconductor intelligence service and others.
# Related Content: Semiconductor Service Area Coverage

## SERVICE AREA PACKAGE

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ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio*. We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies.

Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today’s constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

* The majority of Omdia technology research products and solutions were acquired by Informa in August 2019 and are now part of Omdia.