

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

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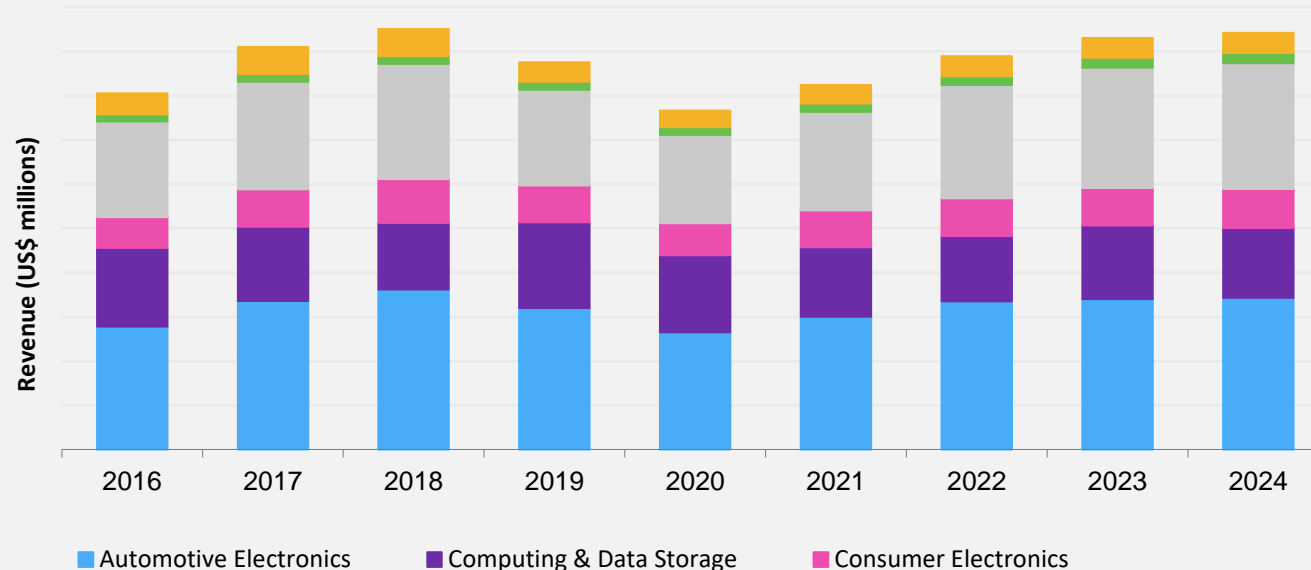
HOW OMDIA HELPS YOU

- 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?

Microcontroller market annual revenue



Source: Omdia

Annual history from 2016 to 2019 and 2020 to 2024 forecast

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Microcontroller Market Summary

Semiconductor Components: Our Expert Analysts



Noman Akhtar
Senior Research
Analyst



Kelson Astley
Senior Research
Analyst



Christopher Morris
Senior Research
Analyst



Paul Pickering
Senior Research
Analyst



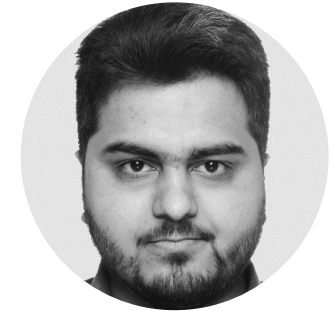
Richard Eden
Principal Analyst



Manuel Tagliavini
Principal Analyst



Chee-Seng Tan
Research Analyst



Jawad Tariq
Research Analyst

Market Tracker

Microcontroller Market Tracker

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

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

Computing & Data Storage

- 9 applications

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 & Table of Contents

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

Competitive Landscape Supplier Landscape

- Vendor List
- Top 20 Suppliers Overall Share
- Top 5 Suppliers per Class
- Top 5 Suppliers per Market

Core Architecture Ecosystem

- Top Ranked MCU revenue by Core IP
- Regional Market Shares

Regional Highlights

- Regional Class Shares
- Regional Market Shares
- Regional Top 5 Supplier Leaders

Design Highlights

MCU Market Revenue Share by Design Features

- Revenue by Functional Design
 - By Class and Market
- Revenue by I/O Characteristics
 - By Class and Market
- Revenue by Environmental Operations
 - By Class and Market
- Revenue by Integrated Memory
 - By Class and Market
- Revenue by Frequency
 - By Class and Market
- Revenue by Process Node
 - By Class and Market
- Revenue by Multicore
 - By Asymmetric and Symmetric

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

Related Content: Semiconductor Components Service Area Coverage



Service Area Package: **Semiconductor Components**

LED
Intelligence Service

MEMS & Sensors
Intelligence Service

Microcontroller
Market Tracker

Power Semiconductor
Intelligence Service

Processors for Network
Infrastructure Market Tracker

MEMS & Sensors for Consumer &
Mobile Intelligence Service

Optoelectronic Components
Report

Processors for Graphics &
Artificial Intelligence Market Tracker

System-on-Chip (SoC)
Market Tracker

Processors Spotlight Service

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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			
Memory & Storage	Semiconductor Components	Semiconductor Manufacturing	Semiconductor Market
<ul style="list-style-type: none"> • DRAM Memory Intelligence Service • Mobile & Embedded Memory Intelligence Service • NAND Memory Intelligence Service • SSD & HDD Storage Memory Intelligence Service 	<ul style="list-style-type: none"> • Key Mobile Component Price Intelligence Service • LED Intelligence Service • Magnetic Sensors Report - 2019 • MEMS & Sensors for Consumer & Mobile Intelligence Service • MEMS & Sensors Intelligence Service • Microcontroller Market Tracker • Optoelectronic Components Report - 2020 • Power Semiconductor Intelligence Service • Processors for Graphics & Artificial Intelligence Market Tracker • Processors for Network Infrastructure Market Tracker • Processors Spotlight Service • System-on-Chip (SoC) Market Tracker 	<ul style="list-style-type: none"> • Global Semiconductor Manufacturing Market Tracker • Pure Play Foundry Market Tracker • Semiconductor Silicon Demand Forecast Tool 	<ul style="list-style-type: none"> • China Semiconductor Intelligence Service • Design Activity Tool • Industrial Semiconductor Intelligence Service • OEM Semiconductor Spend Tracker • OEM Semiconductor Spending & Design Activity Intelligence Service • Semiconductor Application Forecast AMFT Spotlight Service • Semiconductor Competitive Landscape CLT Spotlight Service • Semiconductor Forecast Scenario Tool

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Tom Coate
Customer Success
Manager



Kâren Dyer
Customer Success
Manager



CONNECT WITH US

 @OmdiaHQ | [omnia.com](https://www.omnia.com)

Customer Success

E: customersuccess@omnia.com

SALES

US: +1 (212) 652 5335

APAC: +61 (0)396 016 700

EMEA: +44 (0)7771 980 316

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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.