

Socionext Inc.

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<https://www.socionext.com/en/>



socionext™
for better quality of experience

socionext™

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CORPORATE PROFILE
2023.10

Socionext is a global enterprise that designs, develops and delivers System-on-Chips to customers worldwide.

We strive to be the “SoC division”, or a valuable silicon development partner of our customers by sharing their vision and working together to address their challenges.



Top Message

We are building on our expertise in various sectors as we work to create new value and contribute to a better society. To that end, we are providing new products and services globally, and we will go beyond the bounds of our established businesses to create the value our customers truly want. We believe that, in this way, we will contribute to a "Better Quality of Experience" and help make people's lives more convenient, enjoyable, and prosperous.

We will update you on our progress as we meet new challenges.



Representative Director,
Chairman, President &
CEO

Masahiro Koezuka

Socionext Basic Philosophy

● Mission

“Together with our global partners, we bring innovation to everyone everywhere.”

● Value

- “**Change**” We adapt ourselves to the disruptive discontinuous changes in business, technology, mind, operations, and other environments.
- “**Technology**” By pursuing cutting-edge technology, we aim to become a company that supports global innovation through development of competitive technology.
- “**Growth**” Our growth contributes to the growth of all stakeholders, including shareholders, customers, partners, and employees.
- “**Speed**” We respond quickly to dynamic and rapidly-changing markets and customers.
- “**Sustainability**” We ensure a sustainable future by creating a cohesive society with customers and partners.

● Action Guidelines

- Each individual takes ownership of his or her work, responds to changes in the environment, and thinks and acts independently from a market oriented customer perspective.
- To maintain access to growing markets and companies, we address customers’ problems with effective solutions backed by the latest technologies and knowledge.
- Each individual’s willingness to take on challenges to persevere toward his or her goals and the desire to become a professional will lead to personal and company growth.
- We make speedy decisions on an individual and organizational basis, always looking ahead and creating value for customers.
- As a member of the global society, we will fulfill our corporate social responsibilities and contribute to the realization of a sustainable and prosperous society.

● Corporate Social Responsibility Guidelines

- **Compliance with laws, regulations and social standards**
We fully comply with laws, regulations, and social standards, thus earning the trust of society.
- **Respect for human rights**
We respect each individual’s rights, and do not discriminate or tolerate human rights violations.
- **Establishing an improved work environment**
We want our employees to be happy. We respect their individuality, treat them fairly and aim to create a healthy and comfortable work environment.
- **Environmental considerations**
We conduct our business with consideration for the global environment.
- **Promoting fair trade**
Our relationships with our customers and suppliers are built on trust, in accordance with the principles of fair trade.
- **Information management**
We carefully manage and ensure the confidentiality company information, third party information from our customers and suppliers, and personal information.
- **Respect for intellectual property**
We value and protect intellectual property, which is the primary corporate asset.

Management Policy

To embody the basic philosophy, Socionext group deploys its unique “Solution SoC” business model that delivers optimum combination of technologies to meet the requirement of customers seeking to develop unique and cutting-edge SoCs. We aim to gain more business opportunities from customers worldwide while maintaining regional balance, in growing and advanced markets including “Automotive” “Data Center & Networking” and “Smart Devices”, as well as “Industrial” and “IoT & Radar Sensing”.

We will earn the trust of our customers through our business activities and become “the SoC division” of major and growing companies around the world to support their growth, while contributing to solving social issues by our low-power and other advanced technologies. We will conduct research and development with close collaboration with our customers and achieve a virtuous cycle of growth of our engineers and the company and return profits to our shareholders through business growth and increased corporate value.

Business Model

“Solution SoC”: enabling a future that customers can envision

Socionext has pioneered its unique “Solution SoC” business model, in which the company are involved in the customers’ product development process from an early stage. We help companies achieve differentiation according to their specific needs. Socionext collaborates closely with partners worldwide and delivers complete solutions from system design to production and quality control.

Today, many leading-edge companies looking to create new markets require their own proprietary SoCs that provide features and performance to differentiate themselves from the competition. As the semiconductor ecosystem becomes more diverse - including manufacturing fabs, packages, IP cores, software, and EDA tools - customers have more choices, but finding the right solutions are increasingly more complex and challenging.

There is a growing need for an SoC provider able to understand the customer’s perspective on products they want to create and what problems they need to solve.

To meet such customer needs in the fast-changing market, Socionext acts as a “Solution SoC” company that delivers differentiated SoCs by being involved from the concept stage, then proposing the optimal choices and the best combination of components in the design ecosystem. This unique business model provides our customers distinct value that many conventional ASIC providers who focus mainly on logic synthesis and physical design aren’t able to offer.



Leader in “Solution SoC”

Core Competence

Socionext's Strengths



Socionext meets its customers' needs for differentiation by leveraging the strengths the company has gained through its rich experience in the SoC business.

Socionext's Strengths

1 Complex SoC Design Capability

In the area of large-scale SoCs development for advanced applications such as autonomous driving and high-performance computing, Socionext reduces cost through its design expertise to fully utilize the latest technologies to achieve superior performance and low power.

2 Differentiated IP Offering

Socionext has an extensive lineup of IPs that power SoCs for a range of applications, including automotive, data center & network, and smart devices. In addition to providing high-speed interfaces, high-speed ADC/DAC, RF-CMOS, and security, we leverage technologies from third parties to meet the customers' differentiated needs.

3 Expertise in System Development from Application Perspective

Leveraging our experience in ASSP businesses, we can propose the optimum choice of CPU core and the SoC architecture, including division of the functions between hardware and software. We can provide end-to-end solutions for system development, including OS (Android/Linux, etc.), middleware and application software.

4 Robust Supply Chain and Quality Management

Technologies needed for today's advanced SoCs are becoming more complex, sophisticated, and diverse to maximize performance and meet all specifications. Socionext collaborates closely with partners with leading-edge technologies around the world and offers optimal products by shortening time-to-market through its supply chain management and quality control systems developed over many years.

With the combination of its many strengths, Socionext's "Solution SoC" drives customers' innovation by providing turnkey support from the system design phase to manufacturing, delivery, and quality assurance.

Focus Areas

Leveraging the advantage of "Solution SoC" for high profitability



Socionext serves the diverse needs of the world's leading companies by leveraging its system expertise and core technologies garnered over the years through ASIC and ASSP businesses. By contributing to the following focus areas, we take on challenges to create a better society and ensure a better quality of experiences for people around the world.

Advanced Technology / Large-Scale SoC Design

In the fields of "automotive", "data center & networking", and "smart devices", functionality and performance are becoming increasingly sophisticated. We design and develop our products based on common concepts, including subsystem configuration and bus architecture, and deliver SoCs that meet their scalability needs and enable the optimal function and performance for each application.

[Automotive]

The next generation of automotive development features a shift to autonomous driving. Dedicated SoCs with the most advanced technologies are needed to enable these highly demanding systems. We collaborate with major car OEMs and Tier-1 manufacturers that lead the global market, delivering custom SoCs required for advanced applications, as well as contributing to a safe, secure, environmentally friendly, and comfortable mobility.



[Data Center & Networking]

In the data center field, the increasing volume of data and application processing and communication traffic along with low latency represent major challenges. In networking, demand for large-volume, high-speed wireless communications is expanding globally, combined with the launch of full-scale services for the fifth generation (5G) ultra-high-speed wireless communication. Socionext develops high-performance custom SoCs by utilizing its multi-core design capability and low-power AI engine and accelerator to meet the customers' exact needs for feature and performance.



[Smart Devices]

The smart device market is expected to grow rapidly as AR/VR products and smart glasses are becoming smaller and more feature-rich. Socionext will continue to further advance its technologies for high performance SoC designs to meet the needs for smaller form factors and reduced power consumption.



Advanced Industrial SoCs

For more than 20 years, Socionext has provided custom SoCs to global equipment providers in industrial applications, including factory automation. We meet our customers' special design and development needs with our expertise and guaranteed long-term supply. We develop high-performance custom SoCs by utilizing its multi-core design technology to enable customers to reduce the size and power of their devices.



RF-CMOS Technology / IoT & Radar Sensing

Socionext has been developing intelligent, compact, and low-power radar sensors (24GHz/60GHz) with RF-CMOS technology at the core. Utilizing our ability to integrate core technologies into a complete system, we develop a wide range of solutions. Usage areas include communication infrastructure (LPWA/HD-PLC, satellite communication) and in-vehicle radar. Our ASSPs and Custom SoCs are designed in accordance with our customers' specific requirements.



Providing Optimum Quality to Customers through Comprehensive Management Systems

The products of Socionext are utilized in various fields and are playing very important roles in our customers' products. We build quality products that meet the varying QCD (Quality, Cost, and Delivery) needs of our customers. Additionally, through comprehensive management systems for the planning and design stages, we as a fables company choose perfect partner companies (contract manufacturers) in Japan and overseas according to the characteristics, functionality, and quality of products to be manufactured. Moreover, by leveraging our high-quality and reliable technology that has been developed in the global market and through strong cooperation with our partner companies (contract manufacturers), we provide optimum quality to our customers in a timely manner.

Quality assurance system

Selecting a foundry is a critical part of ensuring optimum quality. In Socionext, we coordinate with domestic and overseas foundry partners that have state-of-the-art technologies and have established an advanced quality assurance system in order to provide the best solutions to satisfy the diverse needs of our customers.



ISO9001 certification

ISO9001 is an international standard for quality management systems with the aim of improving product quality assurance systems and increasing customer satisfaction. We acquired ISO9001 certification. Furthermore, we have set up a system that can expand globally using the production lines of partner companies that have the IATF16949 certification, which is standard in the automotive industry.



Aiming to Achieve a Sustainable and Rich, Low-Carbon Society

Socionext is aiming to become a company that contributes to a sustainable and rich, low-carbon society in harmony with local communities. Our commitment to address global environmental issues together with our customers and society started with each of our employees becoming environmentally conscious. Through the development and distribution of energy-saving and space-saving eco-friendly devices and solutions, we help reduce of the environmental impact of our customers' products.

Environmentally friendly products

Socionext is pursuing the design and development of products that are environmentally friendly while strictly complying with legal regulations. By developing low-power consumption products and providing products that correspond to the legal and regulatory environment of various countries, we are delivering peace of mind to our customers.

The products of Socionext and the packing and packaging materials comply with the EU REACH regulations*1, EU RoHS directive*2, China RoHS directive*3 and other laws and regulations (excluding exceptions for applying usage prohibition measures).

- * 1 : The regulations in the EU with the purpose of registering, evaluating, authorizing and restricting chemicals (Registration, Evaluation, Authorization and Restriction of Chemicals)
- * 2 : The directive that prohibits the use of specific hazardous substances in electronic and electrical equipment sold in the EU (Restriction of Hazardous Substances)
- * 3 : The directive that prohibits the use of specific hazardous substances in electronic and electrical equipment sold in the People's Republic of China (Regulatory ordinance preventing pollution from the production of electronic and information products)

ISO14001 certification

ISO14001 is an international standard for environmental management system(EMS), outlined with the aim of improving environmental performance of an organization. Socionext is continuing its activities to reduce impacts to the environment based on the requirements of ISO14001.



Our Worldwide Support Organization Provides High Quality Service to Customers

● Global HQ ● Area HQ ○ Offices

JAPAN



Headquarters (Shin-Yokohama)



Sendai



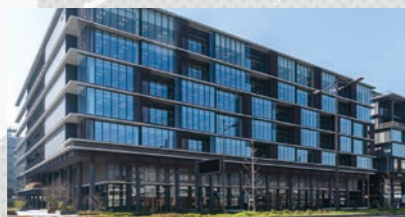
Kawasaki (Mizonokuchi)

Kawasaki

Shin-Yokohama

Kozoji

Kyoto



Kyoto



Kozoji

GLOBAL

Munich

Langen

Maidenhead



Munich



Langen



Maidenhead

Bangalore

Shenzhen

Shanghai

Seoul

Taipei

Kaohsiung

Hong Kong



Shenzhen



Shanghai



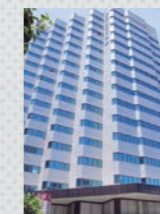
Seoul



Bangalore



Hong Kong



Kaohsiung



Taipei

Milpitas (CA)



Milpitas (CA)



Detroit (MI)

Detroit (MI)

We Support Reliability and Innovation through our Group's Comprehensive Strength

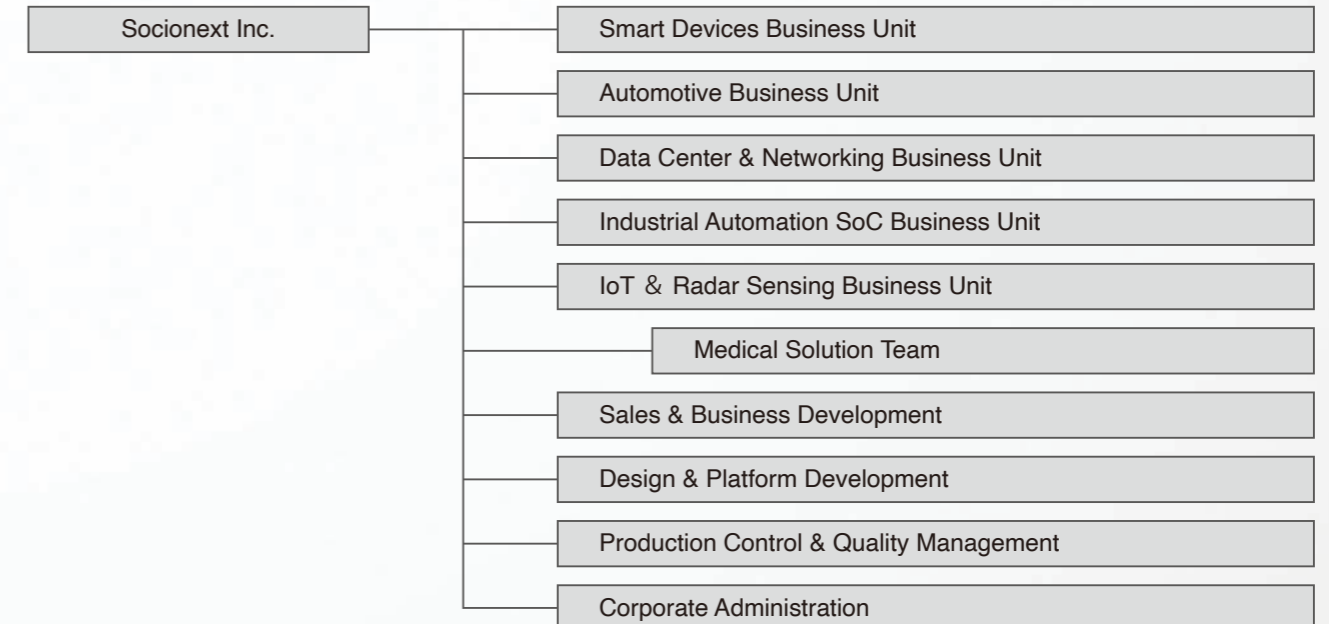
Company Outline

Company name	: Socionext Inc.	
Headquarters	: Nomura Shin-Yokohama Bldg., 2-10-23 Shin-Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222-0033, Japan	
Capital	: 30.2 billion yen (as of March 31, 2023)	
Start of business	: March 1, 2015	
Business description	: Design, development, and sales of SoC and solutions/services centering on SoC.	
Employees	: About 2,500	
Board Directors	: Masahiro Koezuka Representative Director, Chairman, President	
	Koichi Otsuki	Board Director
	Noriaki Kubo	Board Director
	Yutaka Yoneyama	Board Director
	Hisato Yoshida	Board Director
	Masatoshi Suzuki	Board Director
	Sachiko Kasano	Board Director
	Yasuyoshi Ichikawa	Board Director (Audit & Supervisory Committee Member)
	Morimasa Ikemoto	Board Director (Audit & Supervisory Committee Member)
	Noriko Yoneda	Board Director (Audit & Supervisory Committee Member)

Executive Officers

Masahiro Koezuka	Representative Director, Chairman, President & CEO
Koichi Otsuki	Deputy President
Noriaki Kubo	Deputy President
Yutaka Yoneyama	Corporate Executive Vice President
Mitsugu Naito	Corporate Executive Vice President
Hisato Yoshida	Corporate Executive Vice President
Tom Miyake	Corporate Executive Vice President
Seiji Goto	Corporate Senior Vice President
Tadashi Saito	Corporate Senior Vice President
Koji Kitamura	Corporate Senior Vice President
Yutaka Hayashi	Corporate Senior Vice President
Takehiro Kamada	Corporate Senior Vice President
Masaitu Nakajima	Corporate Senior Vice President

Organization Chart



Socionext Group

- ▶ Socionext Inc.
- ▶ Socionext America Inc.
- ▶ Socionext Europe GmbH
- ▶ Socionext Korea Ltd.
- ▶ Socionext Technology (Shanghai) Co., Ltd.
- ▶ Socionext Technology Pacific Asia Ltd.
- ▶ Socionext Taiwan Inc.