For a New Tomorrow
Fujitsu Semiconductor

Semiconductor technologies enable safe, reliable, environmentally friendly products that contribute to individual lifestyles and to society as a whole. Fujitsu Semiconductor is constantly innovating and continues to be the perfect partner for our customers.

The perfect partner for our customers

At Fujitsu Semiconductor Limited we continue to work together as a company that globally supports environmentally friendly products for our customers based on our branding ‘shaping tomorrow with you’. As that motto indicates, every member of the Fujitsu Group places great importance on our long-term partnerships with our customers. Based on our device and manufacturing technologies accumulated over many years, we are increasing the value we add to our customers’ products by expanding the range of device solutions in which our company is a leader, including leading-edge SoC development, an extensive IP portfolio, system verification from the early stages of development, and software support.

To continue to be a company that is the perfect partner for our customers and that our employees can be proud of, Fujitsu Semiconductor is constantly innovating to be a continuously profitable enterprise.

Haruki Okada
President
FUJITSU SEMICONDUCTOR LIMITED
Application-Oriented Solutions Accelerating Leading-edge Markets

In order to help our customers today and respond to the demands of the next-generation market with our leading-edge technologies, Fujitsu Semiconductor is focusing our capabilities on the four areas that demand the most revolutionary technologies: mobile, automotive, advanced imaging, and high performance (industrial equipment). We are supporting innovations in each of these fields through our overall capabilities of LSI. For example, we provide high-frequency technology and encryption technology to support next-generation mobile environments, advancements in dashboard environments and in-vehicle networks to accelerate the intelligence of vehicles, solutions for audio-video equipment to bring new experiences of images, and high-performance supercomputers and optical transmission devices for upgrading social infrastructures.

**Mobile**
Fujitsu Semiconductor provides solutions to the infrastructures and terminals of next-generation high-speed wireless communication such as LTE and 4G in order to realize an advanced mobile network society in which networks can be accessed from anywhere through a wide array of devices. The increasingly efficient mobile terminals achieve reduced power consumption and high-definition graphics, using image processing LSIs.

**Automotive**
In the automotive field, where there are continual advances in driving, safety and environmental performance, Fujitsu Semiconductor is providing graphics LSI solutions for next-generation dashboards that display a variety of highly detailed information, developing and supplying CAN (Controller Area Network) and FlexRay control systems, which are in-vehicle networks, as well as LSI for information and video in-vehicle network solutions. Further, we contribute to the development of human-centric eco-friendly cars through a global development framework of in-vehicle equipment manufacturers and vehicle manufacturers.

**Advanced Imaging**
We are advancing full HD video support for digital cameras, mobile devices, surveillance cameras, and in-vehicle cameras based on LSI technology that supports the H.264 compression format and implementing real-time compression and decompression of full HD. We are also working on new image-processing technology. We contribute to realizing new digital imaging environments using a wide range of video-processing LSI technologies such as transcoder and codec ASSPs (Application Specific Standard Product) that implement full HD recording capabilities with low power consumption.

**High Performance (Industrial Equipment)**
Fujitsu Semiconductor boasts an unparalleled performance record and overwhelming technical prowess, including development of CPUs for the "next-generation supercomputer" being promoted by the Ministry of Education, Culture, Sports, Science, and Technology, components enabling 100Gbps optical transmission, and ASSPs for servers. We are providing leading-edge technologies in the industrial field, which demands high performance and high reliability. Our competitive advantages include responding to customers’ needs with fully supported IPs (Intellectual Property) and application-oriented technologies.
Responding to Diverse Needs with Leading-edge LSI

The market keeps demanding more of LSIs: higher performance, higher functionality, and higher quality, in addition to smaller sizes, reduced weight, and lower power consumption. All this, plus the assurance of a stable supply throughout the world. Responding to these diverse customer needs requires an LSI partner that excels at overall capability. Fujitsu Semiconductor’s leading-edge LSIs make us a powerful partner for our customers.

ASSPs (Application Specific Standard Product)

Fujitsu Semiconductor provides ASSPs for various systems such as personal computers, mobile phones, communication networks, automobile, files, and image processing. This product line includes USB 3.0-SATA bridge LSIs for PCs and audio visual equipment, transcoders and decoders for image processing, and the “Milbeaut” image processing system LSIs for digital cameras. We develop graphics SoCs, for solutions such as “360° Wraparound View System” that provides the driver with a 3-D view of the area around the vehicle without missing anything, and “Integrated HMI System (Human Machine Interface)" which links humans with information inside and outside the car. This accumulation of leading-edge LSI technologies provides for the development of products offering high performance and high functionality.

ASICs

Fujitsu Semiconductor provides ASIC solutions optimized for our customers’ needs based on the wide range of technologies and the broad IP lineup. Further we support our customers’ development of leading-edge SoC, by using our advanced technologies, energy efficient solutions, and development platforms to meet the customers’ needs for advanced development of software, reduction of development time, quality improvement, low-energy consumption and efficient use of space.

Memories

Fujitsu Semiconductor provides high-quality and high-performance FRAMs (Ferroelectric Random Access Memory) as the core memory for systems. FRAM combines non-volatility, so that data is not lost when the power is cut off, with random access. A battery back-up is not required for data preservation. Compared to EEPROMs (Electrically Erasable and Programmable Read-Only Memory) and Flash memories, FRAM offers advantages of high writing speeds, greater read-write cycle endurance, low power consumption. Leveraging the company’s unique strengths, we can respond to the demands of customers for high quality, with FRAM products such as general-purpose standalone memories, and LSIs for RFID.

Wafer Foundry Services

The standard procedure at our foundry service is to receive the full layout data as designed by our customers, then to generate the masks and produce the wafers. Based on the customer’s requirements we can also offer wafer sorting, assembly and LSI module tests. Our support team makes every effort to satisfy customers’ requests. In addition, through the manufacturing information service “FF-eSERVE” we provide customers with various kinds of online data necessary for their business.
Incorporating Quality and Reliability through the Ability to Integrate People, Processes, and Products

Fujitsu Semiconductor LSIs are used in a variety of fields and play an important role in our customers' products. Fujitsu Semiconductor places the highest priority on product quality and reliability, and we are known for high quality and reliability, both domestically and globally. We are working to improve quality and reliability even further in terms of people, processes, and products.

In 1966, Fujitsu introduced the high reliability initiative as a unique initiative. During the preparations for this, then president Kanjiro Okada said: "Although cost and delivery dates are important, a product in poor quality is useless. Quality takes precedence over everything else." These words express the thoroughness of Fujitsu's dedication to quality.

All our efforts are supported by high quality

* SCRUM is the name of the Fujitsu Semiconductor improvement initiative for resolving assignments with the aim of reaching goals.
Contributing to a low-carbon society with eco-device solutions

Fujitsu Semiconductor is working on environmental activities based on the “Green Policy 2020” midterm environmental vision of the Fujitsu Group. We are both progressing with activities such as reducing greenhouse gases and reducing wastes while also helping improve the environmental performance of our customers’ products through low power consumption and small footprint eco-device solutions. We are continuing to give consideration to the environment through the entire life cycle from design and development to manufacturing, logistics, and operation. We are also expanding activities that contribute to the environment, such as afforestation programs in various regions around the world.

Reducing the load on the environment through the entire lifecycle

We are striving to reduce the load on the environment and prevent pollution of the global environment in all stages of work from development and design of LSIs to material procurement, manufacturing, logistics, sales, and operation.

- Total elimination of PFOS throughout the entire company
- FRAM (Ferroelectric Memory)
- Electric double-layer capacitors
- Digital TV tuner module for automotive
- Total reductions in CO₂ emissions

At the Fujitsu Semiconductor Technologies, “electric double-layer capacitors” that can store electricity have been introduced as a measure against instantaneous voltage drop. Also, refrigerators, boilers, and other equipment have been updated with higher efficiency equipment. This enables us to reduce energy consumption and CO₂ emissions.

Contributing to customer products through the creation of environmentally friendly devices

Fujitsu Semiconductor is helping reduce the environmental impact of our customers’ products through the development and provision of environmentally friendly devices and solutions that promote reduced power consumption, increased efficiency, reduced size and weight, reduced consumption of resources, and built-in eco-functions benefit.

- FRAM (Ferroelectric Memory)
  FRAM is a non-volatile memory, which keeps data even when the power is cut. Since battery back-up is not required for data preservation, and the current required during writing is low, it greatly reduces the power consumption. FRAM offers the advantages of high write speed, up to ten trillion read-write cycles, and low power consumption, making it optimal memory for smart meters where continuous data collection is essential.

- Digital TV tuner module for automotive
  This 4-diversity tuner module for automotive, not only boasts the industry’s highest level of mobile reception, but, at 19mm × 19mm, it is the industry’s smallest module. In addition to its low power consumption when in operation, the internally mounted peripheral components help reduce the number of discrete components, as well as the overall area required for mounting.

Developing various initiatives to contribute to the environment on the global stage

Fujitsu Semiconductor is aiming to exist and prosper together with the international community and local communities through initiatives to contribute to the environment.

- Total elimination of PFOS (Per-fluoro octane sulfonate) has been completed throughout the entire company in accordance with the regulations on PFOS.
- Electric double-layer capacitors
- Environmental activities like planting lavender seedlings (Fukushima Prefecture: Aizuwakamatsu Plant)
- Traveling environmental classes (Aichi Prefecture: FUJITSU VLSI LTD.)
- Afforestation initiatives (Hong Kong: FUJITSU SEMICONDUCTOR PACIFIC ASIA LTD.)
- Broad reductions in CO₂ emissions

We are striving to reduce the load on the environment and prevent pollution of the global environment in all stages of work from development and design of LSIs to material procurement, manufacturing, logistics, sales, and operation.
Fujitsu Semiconductor promptly and stably supplies highly reliable products to our customers around the world through partnerships with manufacturing partners, for example, by introducing the latest processes, continual quality assurance initiatives, and improving QCD (Quality Cost Delivery) with the introduction of revolutionary manufacturing initiatives.

Fujitsu Semiconductor provides a wide range of logic LSI assembly and testing services, based on strong partnerships with our manufacturing partners, from high-end to general-purpose and composite packages. We assist with customer product development by aiming for quality enhancements, cost reductions, and fast delivery schedules.

Total factory support operations are also performed within our group including information systems for core operations, manufacturing administration, factory automation, and quality management, as well as facility design, construction, management, and maintenance.

We respond to our customers’ needs with unified production, distribution, and technology.

The strengths of Fujitsu Semiconductor are the variety of our LSI technologies that we have built up over time, including leading-edge processes, embedding technology, and an extensive IP portfolio, software, and system technology. Furthermore, the Fujitsu Semiconductor Group, which extends throughout Japan and various countries in the world, is dedicated to developing high-quality products that satisfy customers at every stage, including sales and promotion, design and development, manufacturing, analysis, system verification, logistics, and maintenance. Through global collaborations leveraging our technological and product development capabilities, the Fujitsu Semiconductor Group is developing a diverse variety of highly competitive products with excellent value added. We are also responding to our customers’ needs through application-oriented product development employing unified production, distribution, and engineering.
We rapidly respond to our customers through our support system all over Japan.
We provide uniformed and high quality services globally.

Europe

- Maidenhead, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office
- Paris, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office
- Langen, FUJITSU SEMICONDUCTOR EUROPE GmbH, Memory and Sales Headquarters, ASIC Design Center
- Istanbul, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office
- Budapest, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office
- Munich, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office, ASIC Support Design Center, Graphics Competence Center (GCC)
- Milan, FUJITSU SEMICONDUCTOR EUROPE GmbH, Sales Office

Asia

- Maidenhead, NANTONG FUJITSU MICROELECTRONICS CO., LTD, Manufacturing
- Beijing, FUJITSU SEMICONDUCTOR (SHANGHAI) CO., LTD, Sales Office
- Hong Kong, FUJITSU SEMICONDUCTOR PACIFIC ASIA LTD, Headquarters, Sales Office, ASIC Support Design Center, System Solution Design Center, IC Design Center
- Singapore, FUJITSU SEMICONDUCTOR ASIA PTE. LTD, Headquarters, Sales & Marketing office, ASIC Support Design Center
- Penang, FUJITSU SEMICONDUCTOR ASIA PTE. LTD, Sales Office
- Shanghai, FUJITSU SEMICONDUCTOR (SHANGHAI) CO., LTD, Sales Office, IC Design Center
- Daegu, FUJITSU SEMICONDUCTOR KOREA LTD, Headquarters
- Seoul, FUJITSU SEMICONDUCTOR KOREA LTD, Headquarters
- Dalian, FUJITSU SEMICONDUCTOR (SHANGHAI) CO., LTD, Sales Office
- Nantong, NANTONG FUJITSU MICROELECTRONICS CO., LTD, Manufacturing

North America

- Sunnyvale (CA), FUJITSU SEMICONDUCTOR AMERICA, INC, Headquarters, Research and Development, ASIC Design Center
- Detroit (MI), FUJITSU SEMICONDUCTOR AMERICA, INC, Sales Office
- Boston (MA), FUJITSU SEMICONDUCTOR AMERICA, INC, Sales Office
- Spring Hill (TN), FUJITSU SEMICONDUCTOR AMERICA, INC, Automotive Sales Offices
- Peru, FUJITSU SEMICONDUCTOR AMERICA, INC, Solution Design Center

Global Network
The collective strength of our group supports high reliability and cutting edge technology

**Corporate Profile**

- **Corporate name**: FUJITSU SEMICONDUCTOR LIMITED
- **Location of head office**: Nomura Fudosan Shin-yokohama Bldg. 10-23, Shin-yokohama 2-Chome, Kohoku-ku Yokohama Kanagawa, Japan
- **Capital**: 60,000 million yen
- **Date of establishment**: March 21, 2008
- **Business description**: Design, development, manufacturing, and sale of LSI products
- **Employees**: 2,819
- **Shareholders**: FUJITSU LIMITED (100% shareholder)
- **President**: Haruki Okada
- **Executives**:
  - Hayashi Yoshi
  - Shiga Kazu
  - Kiyokawa Kenichi
  - Kumasaka Megumi
  - Amane Hiroshi
  - Kazunori Kato
  - Nanao Toyoko
  - Toshihisa Sakai
  - Masamichi Obara
  - Satoko Yamaguchi
  - Michiaki Kawanami
  - Shinichi Machida
  - Brindan K. Knezey
  - Toshifumi Tanaka
  - Kazumasa Ito
  - Terumasa Miyake
  - Junji Ohashi
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President
  - Corporate Vice-President

**Fujitsu Semiconductor Group**

- FUJITSU SEMICONDUCTOR LTD.
- Aikuno Technology Center
- Akita Plant
- Aizuwakamatsu Plant
- FUJITSU ELECTRONICS INC.
- FUJITSU VLSI LTD.
- FUJITSU MICROELECTRONICS SOLUTIONS LTD.
- FUJITSU SEMICONDUCTOR TECHNOLOGY LIMITED
- FUJITSU SEMICONDUCTOR IT SYSTEMS LTD.
- FUJITSU FACILITIES ENGINEERING LTD.
- FUJITSU SEMICONDUCTOR AMERICA INC.
- FUJITSU SEMICONDUCTOR EUROPE GmbH
- FUJITSU SEMICONDUCTOR EMBEDDED SOLUTIONS AUSTRIA GmbH
- FUJITSU SEMICONDUCTOR ASIA PTE LTD.
- FUJITSU SEMICONDUCTOR PACIFIC ASIA LTD.
- FUJITSU SEMICONDUCTOR (CHANGSHA) CO., LTD.
- FUJITSU GLOBAL MOBILE PLATFORM INC.
- FUJITSU SEMICONDUCTOR KOREA LTD.
- NANTONG FUJITSU MICROELECTRONICS CO., LTD.

**Organizational Chart**

- Business Transformation Unit
- Business Management Unit
- Corporate Management Unit
- Corporate Affairs and Human Resources Unit
- Intellectual Property Unit
- Quality Assurance Unit
- Environment Promotion Office
- Sales Unit
- Advanced Product Business Unit
- Manufacturing Unit