



KAGA FEI Co., Ltd.

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Kohoku-ku, Yokohama, Kanagawa 222-8508

www.kagafei.com/jp/

KAGA FEI is your one-stop partner for creating new value.

We provide consistent services while responding quickly to the changing times. As a unique global electronics trading company providing one-stop solutions, we make changes that maximize the value of your products with uncompromising reliability.

KAGA FEI is now more capable than ever before and we stand ready to surpass your expectations.

Greeting



We, KAGA FEI have developed our people, products, and expertise through a transformation from our roots as a technical trading company handling electronic components, mainly semiconductors. Today, we became a "Creating Company" that engages in our customers' manufacturing processes with planning and technological development capabilities, while also offering solution proposals that support their digital transformation.

Regarding global circumstances, challenges are emerging daily that must be overcome—from rapid political and economic changes to long-term issues regarding population and the environment. In addition, the development and proliferation of such technologies as AI provide significant benefits to humanity in tackling labor shortages, disaster prevention, healthcare, and more, while also posing social risks.

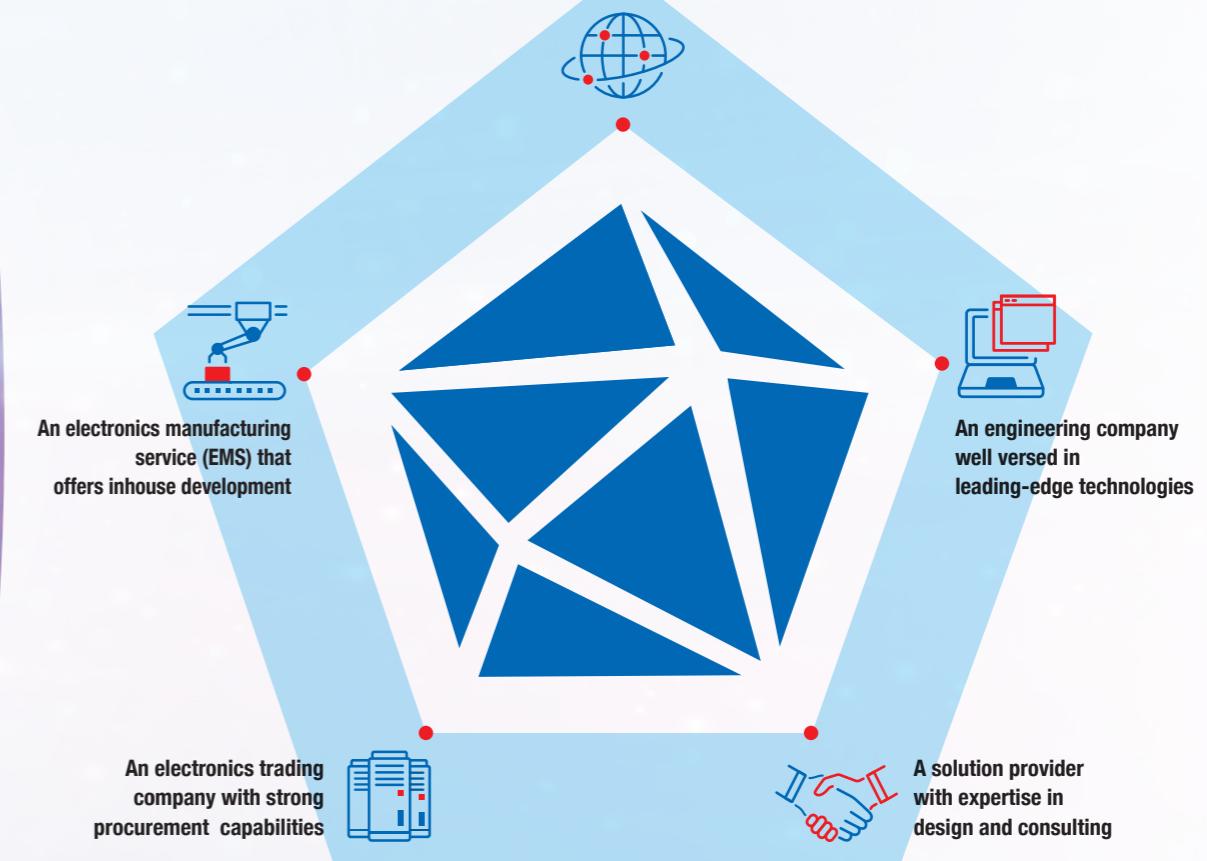
Through our customers who are addressing various challenges in this unpredictable environment, KAGA FEI will enrich society with digital technology as well as diverse perspectives and innovative thinking.

Please look forward to even greater reliability with KAGA FEI.

Takeshi Tsukamoto, Representative Director, President

KAGA FEI

A global company with an international presence



Corporate profile

| | |
|----------------------------|--|
| Name | KAGA FEI Co., Ltd. |
| Established | May 2, 1952 |
| Capital | 4,877,683,581 yen (Total number of issued shares: 26,631,972) |
| Employees | 950 (including affiliated companies outside Japan) |
| Business activities | Design, development, and sales of electronic devices |
| | <ul style="list-style-type: none">● Sales of consumer and industrial electronic devices including automotive, audio-visual, communication, and information processing equipment● Development, design, and sales of application boards● Development and sales of consumer and industrial application software for microcomputers● Development and sales of IoT wireless communications modules● Development, contract design, and technical support for custom SoCs and other devices |

Representative Director, President

Takeshi Tsukamoto

Advanced technology is our specialty. Cutting-edge fields are where we thrive.

New value emerges from interconnections.

Do you want to start a new venture?

KAGA FEI works in partnership with its customers to grasp opportunities for new business development offered by IoT and other features of our digital society.



5G

With 5G poised to transform both industry and daily life, we offer multi-faceted support that encompasses IoT, networks, and service implementation.

AI

From the integration of AI into embedded systems to the full-scale adoption of cloud-based AI, we have extensive experience across all phases from planning to commercial production.



Security

We are building trust in the digital era through advanced software and hardware technologies that include proprietary encryption and secure devices.



Robotics

We utilize advanced devices and leading-edge software technologies to support the development of industrial and life support robots.

Energy

We are involved in numerous initiatives, including power devices that deliver energy efficiency for smart houses.

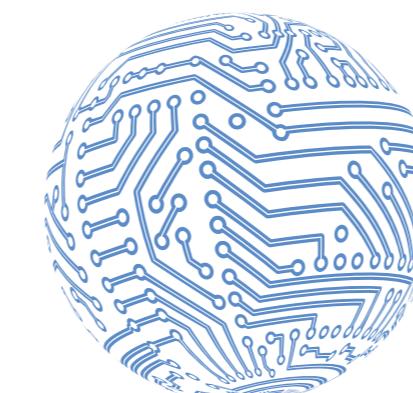
5G / AI

CASE / Mobility

Security

Smart Factories

Robotics / Energy



CASE

We can draw on our experience in fields such as image processing, data communication, and security to assist with CASE technologies for the next generation of vehicles.

Mobility

We are forging ahead toward a new era in mobility through IoT-based data collection and sophisticated communications between people, vehicles, and infrastructure.



Smart Factories

We are helping to transform manufacturing through the development of factory IoT systems and industrial robots to enhance competitiveness and address labor shortages.

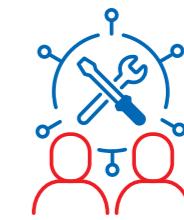


From products to services. From tangible to intangible. We support shifts of business.

Today, markets and industrial structures are going through tremendous change. They are shifting from the tangible to the intangible. Our customers are transitioning from hardware to service provision. We undertake everything related to manufacturing using our global technological ecosystem to respond to such moves by our customers. As a partner, we work with our customers to create new services and businesses.



Becoming a service provider



Today, markets and industrial structures are going through tremendous change. From tangible to intangible.



Contract Design

KAGA FEI utilizes its industry-leading technical capabilities and customization skills to offer a design service with high added value and to deliver optimal solutions. This is a total service that extends from system development to mass production.



Contract Manufacturing

Our flexible manufacturing infrastructure can handle the small lot production of diverse products. Whether it be semi-finished or finished goods, KAGA FEI can turn your ideas into reality at the location of your choice.



IC Programming Center

Device programming, marking, inspection, and packaging are among the contract services available at our IC Programming Center(IPC), which boasts one of Japan's leading production systems. This also includes a service for writing unique data for security purposes.



New Business Creation

KAGA FEI can coordinate offshore development to achieve a good fit with the customer's project and requirements. Our project management ensures that development progresses smoothly and costs are kept down.



Consulting

Working on the basis of the customer's ideas and concept, our consulting covers both hardware and software and extends from the planning of embedded product development through to the requirements specification, component selection, and mass production stages. We provide total support from planning to mass production.

We steadily source excellent devices from all over the world.

Main product lines

► Kaga Electronics Group products



KAGA FEI Co., Ltd.
 -Wireless Module "CONTINECT Wireless solution"
 -Bluetooth® Low Energy modules -Wireless LAN modules
 UI/UX Solution
 -HMI Authoring Tool for Embedded system "CGI Studio" "UI Conductor"
 -Font Rendering Engine "Higlyph"

► Japanese supplier's products



Fujitsu Limited
 -Software -Solutions and services
 -Computer platforms

Fujitsu Frontech Limited
 -Palm vein authentication -Washable UHF RFID Tag

1FINITY Mobile Techno, Inc.
 -Wireless and Imaging Design / Simulation Services / Consulting



Fas Technologies Inc.
 -Server -Storage
 -Network equipment -Software



socionext Inc.
 -Solution SoC (ASIC) -ASSP (for specific uses) -Solutions and services



RAMXEED LIMITED
 -System memory (FeRAM, ReRAM, RFID)



FUJI ELECTRIC CO., LTD.
 -Semiconductors (IGBT, SiC Devices, Power MOSFETs, Power Supply Control IC, etc.)
 -Factory Automation Systems
 (Drives & Inverters, Programmable Logic Controller, etc.)
 -Power Supply (Uninterruptible Power System, Switching Power Supply, etc.)



Fuji Electric FA Components & Systems Co., Ltd.
 -Motor Control (Magnetic Contactors, Manual Motor Starters, etc.)
 -LV Distribution
 (Molded Case Circuit Breaker, Earth Leakage Circuit Breaker, Circuit Protectors, etc.)
 -Control (Pushbuttons, Relays, Safety Equipment, etc.)



Sumitomo Electric Industries, Ltd.
 -Electron Devices (GaN HEMTs)
 -Optical Devices (Optical Transceivers)



FCL COMPONENTS LIMITED
 -Relays -Touch panels -Thermal printers -Keyboard / pointing devices
 -Server console switches -Wireless modules -Sensors



FDK CORPORATION
 -Battery (Ni-MH Battery, Lithium Battery, Alkaline Battery)
 -Electronic Components



SHINKO ELECTRIC INDUSTRIES CO., LTD.
 -Semiconductor Package -Leadframe -Heat Spreader
 -Semiconductor Package Substrate -Module assembly -Ceramic Electrostatic Chuck
 -Motor Core -Precision Die Parts -Carbon Nanotube Thermal Interface Material



FICT LIMITED

-High multi-layer printed circuit boards -High-density build-up circuit boards
 -Hybrid printed circuit boards -Semiconductor package substrate
 -Printed circuit board design and simulation



OTAX CO., LTD.

-Dip Switches -Switches -Connectors -Metal Processing



Kaltech Co., Ltd.

-Photocatalyst materials and applied products



Canon Marketing Japan Inc.

-CMOS Image Sensor



SUNCORPORATION

-Smart glasses -Routers -Sensor



Japan E.M. Solutions Co., Ltd.



TOREX SEMICONDUCTOR LTD.

-DC / DC converters -Voltage regulators -Voltage detectors



NetVision Corporation

-Development and sales for imaging inspection boards



PFU Limited

-Secure Infrastructure Setup and Operation Services



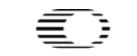
PicoCELA Inc.

-Edge computer products with WiFi mesh technology for enterprise



BONX INC.

-Original Group-Talk System -Wearable Devices



Master Visions Inc.

-Virtual 3D Interactive



Eurofins FQL Ltd.

-Reliability evaluation and Failure analysis of electronic devices
 -Material analysis, Environmental analysis and Supplier audit for QMS
 -Quality consulting and Support for QMS

Main product lines

► International supplier's products



AAC Technologies

-MEMS Sensor (MEMS Mics / Barometric Pressure Sensors / MEMS Speakers)
 -Acoustics (Speakers / Car Audio System)
 -Haptics (Actuators / IC Driver)
 -Optics (Optical Lenses / Camera Modules)



IDEMIA France SAS

-Connected Car Solutions
 -Digital Car Key / NFC Key Card / eSIMs for Telematics and Infotainment



IntelliGo Technology, Inc.

-AI Noise Cancellation IC
 -AI Noise Cancellation / AI Beam Foaming / Acoustic Echo Cancellation /
 -Voice Recognition / Direction of Arrival



Lumileds LLC

-Visible-light LEDs (lighting, consumer)
 -Infrared LEDs, UV LEDs



MediaTek Inc.

-5G / Wi-Fi7 -Wi-Fi6E communication IC, Internet of Things IC
 -Image processor for automotive applications



Silicon Motion Technology Corporation

-SSD, eMMC, UFS

-Graphics Display Controller



SkyHigh Memory Limited

-SLC NAND, eMMC, MCP



Sunny Japan

-Optical Parts

-Camera Module



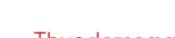
Ningbo Sunny Automotive Optech Co., Ltd.

-Optical Parts for Automotive



Zhejiang Sunny SmartLead Technologies Co., Ltd.

-Camera Module (Automotive)



Thundercomm Technology Co., Ltd.

-Snapdragon™ System on Module (SoM) products for automotive, mobile and IoT
 -Fiduciary development using Snapdragon™ SoM (Software, hardware and cloud development)
 -ODM products using Snapdragon™ SoM



Tianma Microelectronics Co., Ltd.

-LCD Panel



Tongfu Microelectronics Co., Ltd.

-Full turnkey service provider, Broad package offerings including:
 -Leadframe (FCQFN / QFN / LQFP / TSSOP / SOT / TO...)

-Substrate (BGA / LGA / FCBGA / 2.5D / SiP)

-Wafer level (Fan-in / Fan-out / Gold bump)



TXC Corporation

-Crystal, Oscillator, Sensor



VIA Technologies, Inc.

-ARM and x86 embedded boards and systems



VIA Labs, Inc.

-USB2.0/3.2Gen1&2 Hub IC/USB4 end point IC

-Type-C PD Controller, Data Switch, e-marker, Redriver

-SATA-USB Bridge, PCIe-USB Host controller



everPro Technologies Company Ltd.

-Active optical cables (USB, HDMI, DVI, Display Port, more)

-Transceiver (SFP+, QSFP, etc) & Optical Cable (Glass fiber OM2/3)



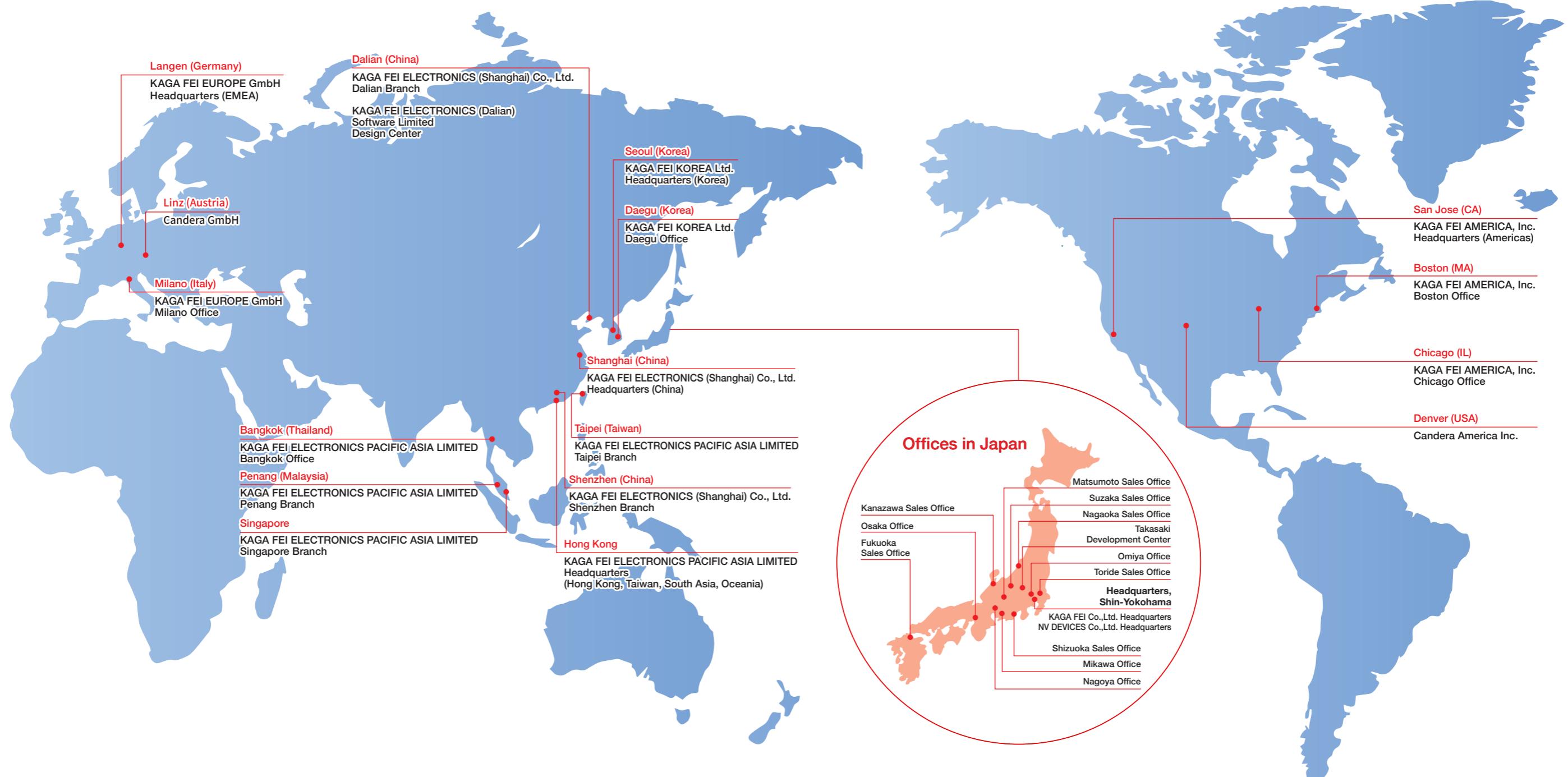
Glory Faith (Hong Kong) PCB Co., Ltd.

-Single-sided printed circuit boards

-Low layer printed circuit boards

-Metal printed circuit boards

We remain your partner in Japan and across the globe.



► Environmental management system

As well as having a certified ISO14001 environmental management system, the activities of KAGA FEI include the development and marketing of environmentally friendly products with low power consumption and appropriate management of the chemical substances used in its products.

In addition to working on energy efficiency, resource efficiency, waste reduction, and recycling at its various different sites, the company also supports and participates in decarbonization and biodiversity protection and community-based environmental and social initiatives.



Certification body:
Japan Audit and Certification Organization for Environment and Quality (JACO)
Registration No.: EC18J0025
Issue Date: March 14, 2001

| Covered sites and certification dates (including affiliates) | |
|--|---------------|
| Headquarters | Mar. 14, 2001 |
| Sales offices in Japan | Dec. 26, 2023 |
| Central Logistics Center | Mar. 14, 2001 |
| Takasaki Development Center | Jan. 11, 2023 |
| NV DEVICES Co.,Ltd. Headquarters | Apr. 9, 2008 |
| NV DEVICES Co.,Ltd. Sagamihara Site | Mar. 11, 2009 |