



KAGA FEI Co., Ltd.
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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.

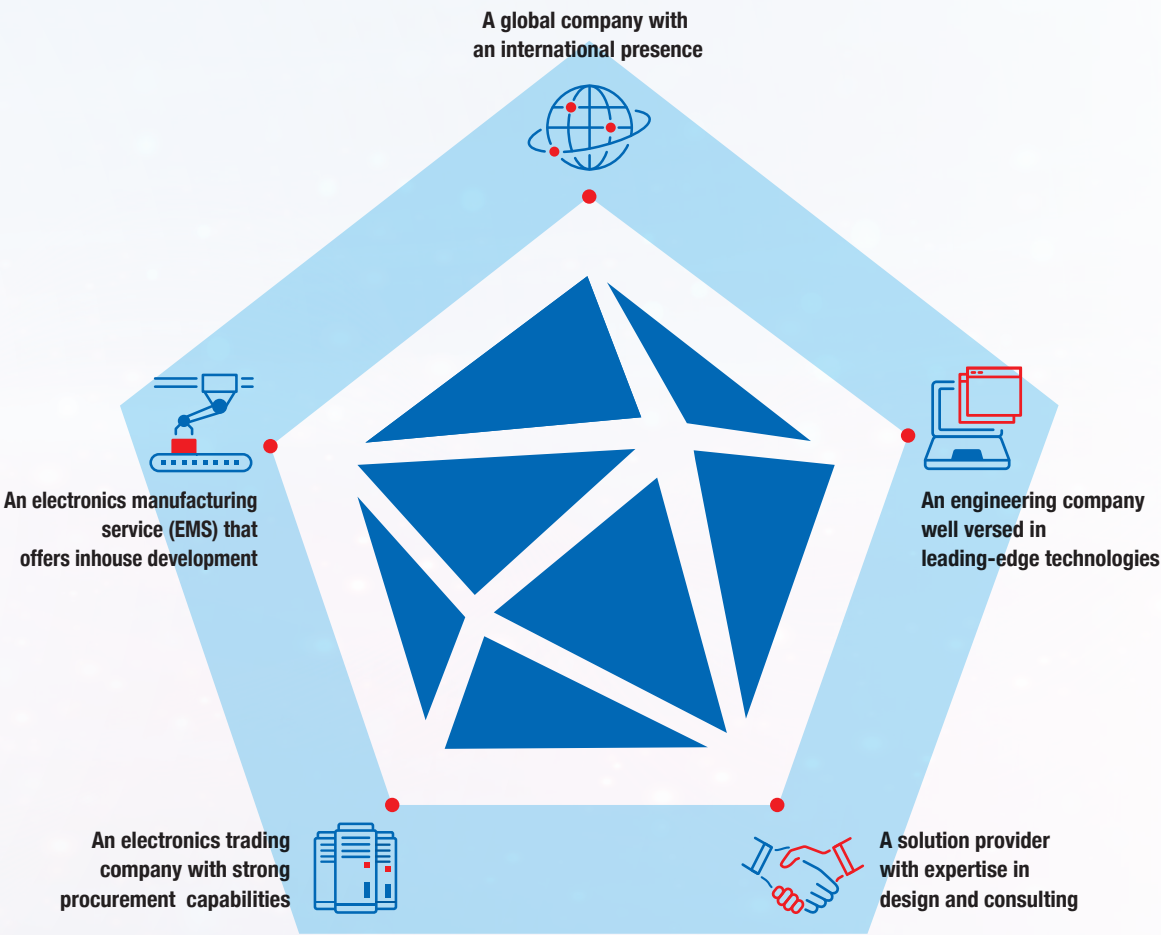
Regarding global circumstances, challenges are emerging daily that must be overcome—from rapid political and economic changes to long-term issues regarding population and the environment. In addition, the development and proliferation of such technologies as AI provide significant benefits to humanity 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



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 ● 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.



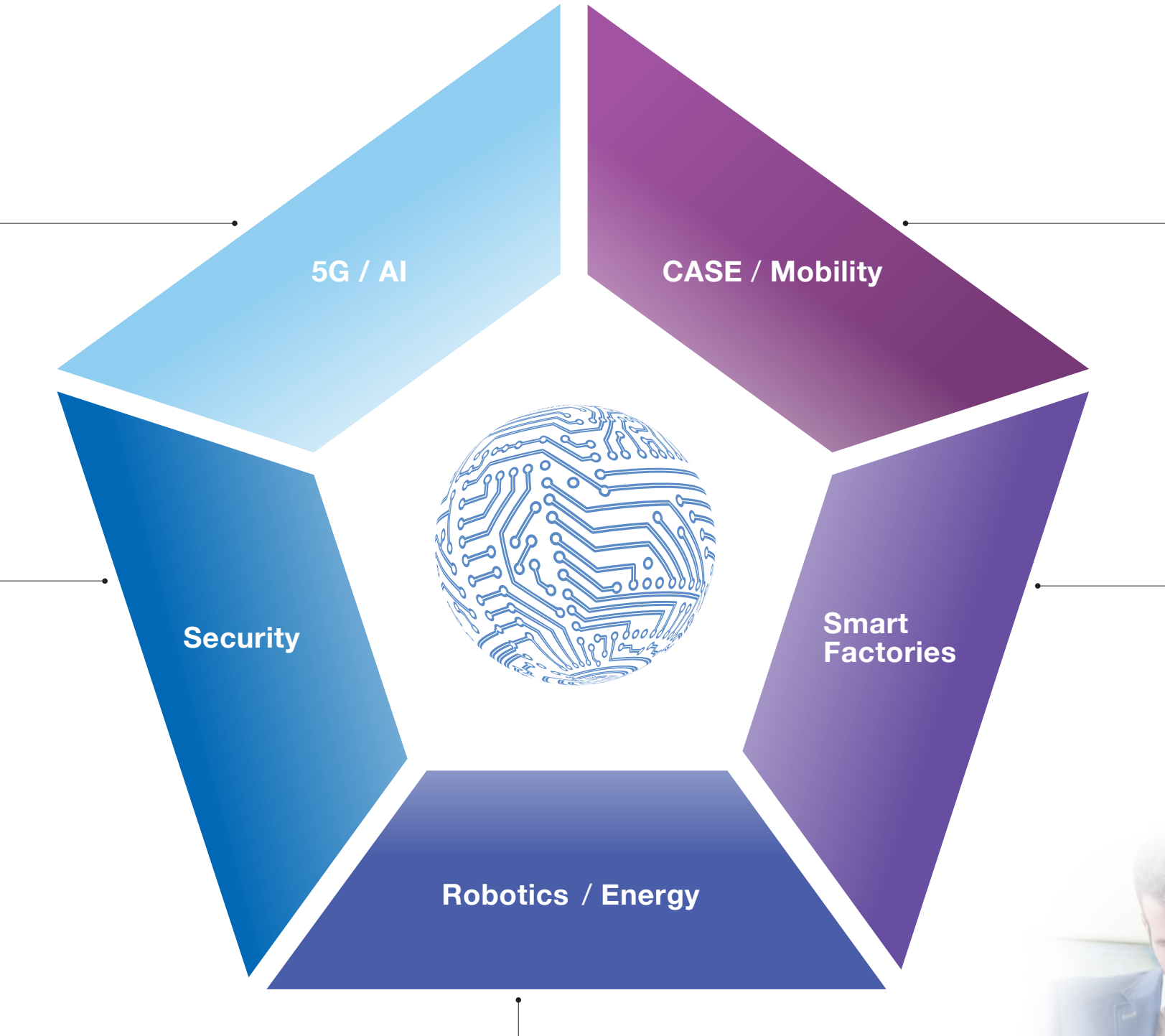
Security
We are building trust in the digital era through advanced software and hardware technologies that include proprietary encryption and secure devices.



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.



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

Fsas Technologies Inc.

·Server ·Storage
·Network equipment ·Software

Mobile Techno Corp.

·Wireless and Imaging Design / Simulation Services / Consulting

FDK CORPORATION

·Battery (Ni-MH Battery, Lithium Battery, Alkaline Battery)
·Electronic Components

Fujitsu Frontech Limited

·Palm vein authentication ·Washable UHF RFID Tag



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

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

NJ Components Co., Ltd.

·Coil / Ferrites ·Multilayer power inductors ·Piezoelectric products

NTT Devices Cross Technologies Corporation

·Design, analysis, simulation and consulting services for electronic devices



NTT Communications Corporation

·Smart Data Platform service ·Things Cloud® (IoT platform service)



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.



TRIPLE-1 Inc.

·Mining LSI ·Local 5G base station (CU/DU·RU)



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

► 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)



AFSW Inc.

·Foundry services



Allegro MicroSystems, Inc.

·Magnetic sensor IC(TMR, Hall)
·Power IC(Motor Driver, PMIC, LED Driver)



Ambiq Micro Inc.

·Ultra-low power MCUs
·Ultra-low power RTCs



Amkor Technology Japan, Inc.

·Packaging services ·Testing services



ams-OSRAM AG.

·LEDs (Ultraviolet~Visible~Infrared) , Lasers (Blue, green, infrared)
·Sensors (Optical sensor, 3D sensing, LiDAR, Position sensor)
·Mixed-signal Custom IC



Celestica Japan K.K.

·WhiteBox products and EMS service of Server, Storage and Network



Cirrus Logic, Inc.

·Audio DSPs, amplifiers, D / A converters, A / D converters, Codecs



Delta Electronics, Inc.

·AC / DC Adapters
·Embedded Power



Diodes incorporated

·Analog, Discrete, Logic, Connectivity & Timing



DOMINANT Opto Technologies Sdn. Bhd.

·Visible-light LEDs
(automotive interior and exterior, industrial, and consumer lighting)
·Infrared LEDs



Elec & Eltek International Co., Ltd

·Low - High multi-layer printed circuit boards
·Build-up printed circuit boards ·Metal printed circuit boards
·Rigid-Flex PCB



Einno Semiconductor

·High Density, High Reliability Power IC, SiP Power Module
(Industrial Grade, AEC-Q100)



Guangdong Ellington Electronic Technology

·Low - High multi-layer printed circuit boards
·Build-up printed circuit boards
·Aluminum printed circuit boards



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



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 Forming / Acoustic Echo Cancellation /
·Voice Recognition / Direction of Arrival



InvenSense, Inc.

·Motion Sensor ·Microphone
·Pressure Sensor



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



Richtek Technology Corporation

·DCDC Converters, LDOs, Power Management IC
·LED Driver, BLDC motor driver, USB Type-C & PD solutions
·Class-D Audio Amp



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)
·Water 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.

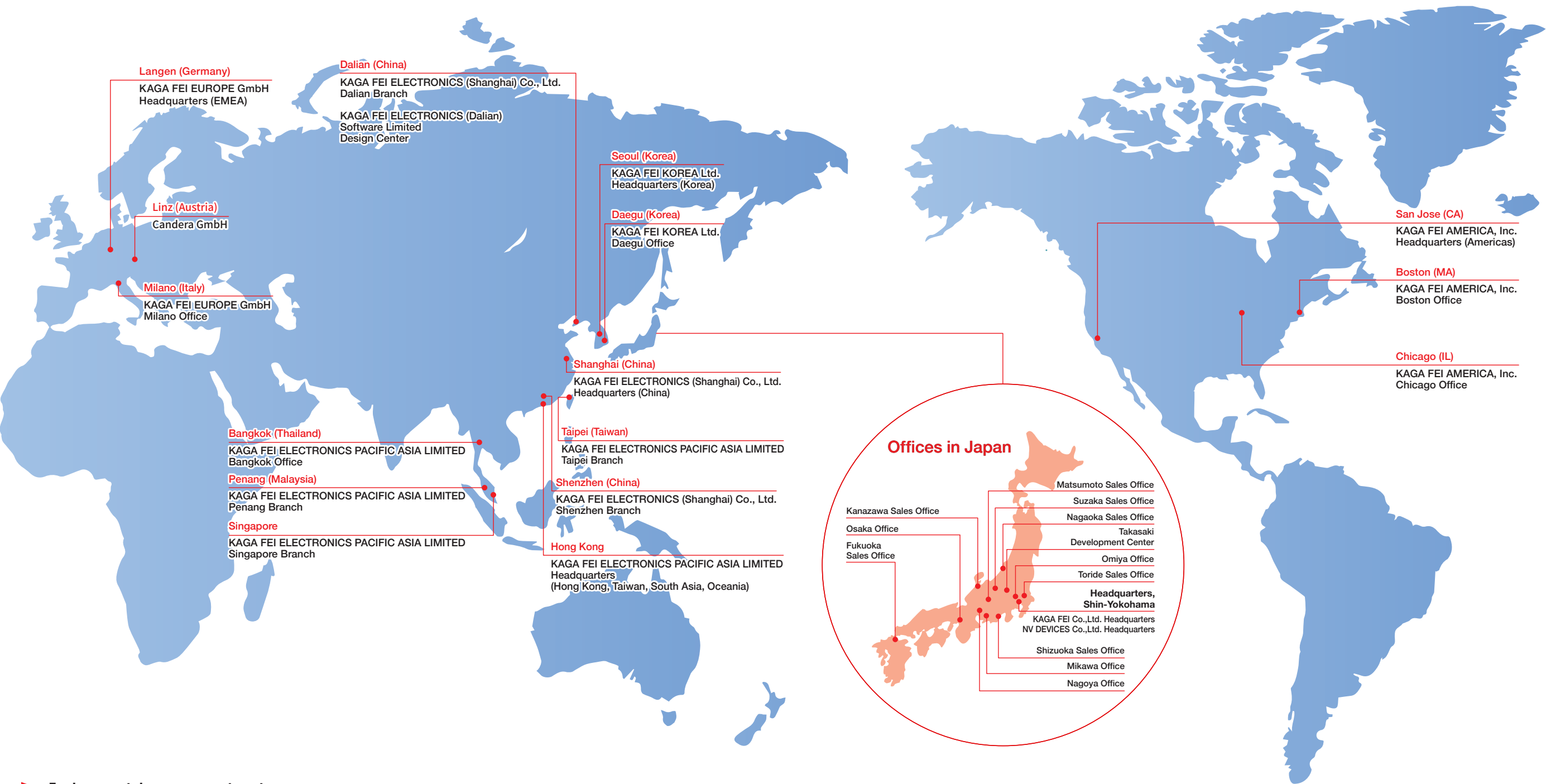
·USB2.0/3.2Gen1&2 Hub IC/USB4 end point IC
·Type-C PD Controller, Data Switch, e-marker, Redriver
·SATA-USB Bridge, PCIe-USB Host controller



WithSecure Corporation

·Endpoint Security(EPP/EDR)

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. Sagamiara Site	Mar. 11, 2009