

## Semiconductor Devices

Cellular Phone

Automobile

Digital Consumer

Amusement

Industrial Equipment

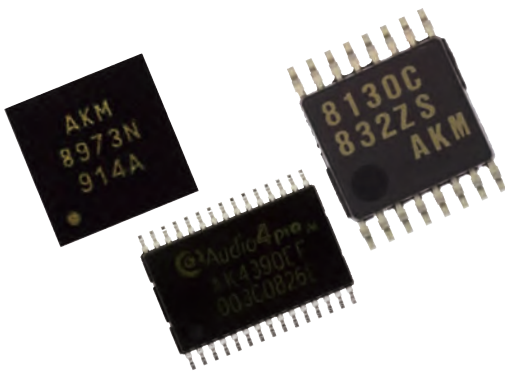
Information Equipment

# Pioneering

*Pioneering future markets  
with advanced semiconductor devices*

### Providing the market with unique semiconductor devices

Hakuto handles semiconductor devices developed for specific fields and products, and many devices have been adopted for top-selling, advanced products. We are also proud of our sales structure backed up by field-application engineers trained with skills to handle high-tech products.



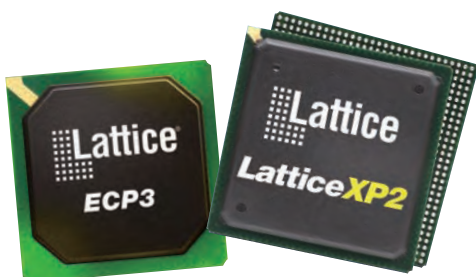
**Asahi Kasei Microdevices Corporation**  
DSP/ADC/DAC for Audio  
Clock Devices, Electronic Compass



**Yamaha Corporation**  
Audio LSI, Video Cotroller  
Graphic LSI



**EPSON TOYOCOM Corporation**  
Gyro sensor, Resonator, Oscillator



**Lattice Semiconductor Corporation**  
FPGA, CPLD



**Marvell Semiconductor, Inc.**  
Micro Processor



**STMicroelectronics**  
8bit 32bitMCUs, Automotive ICs,  
Memory, Discrete

## Electronic Components

Connector

Electronic Components

EMI solutions

Thermal solutions

Optical Components

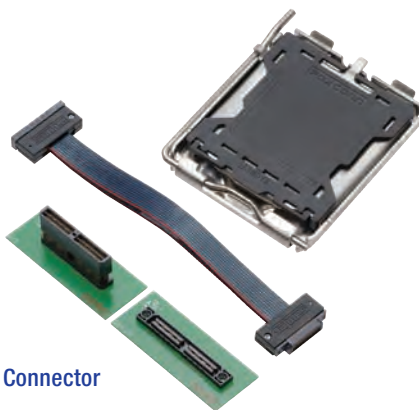
PV-module, PV-system

# Enhancing

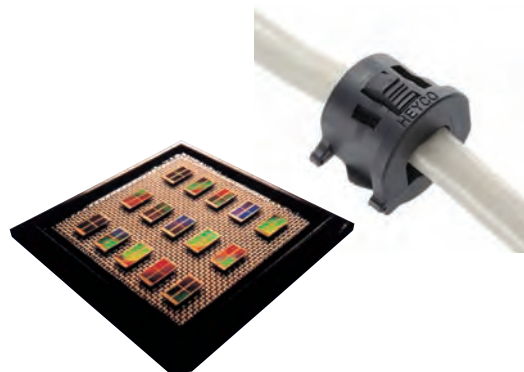
*Enhancing product value by promoting sales and developing new products*

### Supplying various types of electronic components and promoting consignment production

Hakuto handles various electronic components and optical communication products. To produce high value-added products, we collaborate with suppliers in “design-in” and consignment production.



Connector



Electronic Components



EMI solutions



Thermal solutions



Optical Components



PV-module, PV-system

## Electronic and Electric Equipment

Semiconductor Equipment  
Compound Semiconductor Equipment  
Equipment for FPD  
Nanotechnology Equipment  
Vacuum System and Components  
Optical Equipment  
Measurement System  
Scientific Equipment /  
Physics & Water Equipment  
Equipment for PCB

# Mastering

*A professional team mastering  
next-generation electronics technologies*

### Aiming to provide the market with cutting-edge products

Hakuto handles electronic and electric equipment that will lead the next generation. Customers include many leading companies and research institutes in the field of electronics. They have given high marks to the technical services provided by our technical staff, who have refined their skills at Isehara Technical Center and at suppliers.



**Veeco Instruments, Inc.**  
MOCVD System



**Pfeiffer Vacuum Technology AG**  
Turbo-Molecular Pump, Dry Pump  
Helium Leak Detector



**National Electrostatics Corp.**  
Radio Carbon Dating System (Pelletron Accelerator)



**Molecular Imprints, Inc.**  
UV type Nano-Imprinting System



**Centrotherm**  
High temperature furnace for SiC Devices

**Hakuto Co., Ltd.**  
Roll to Roll both side exposing system



**Own-brand products**  
Hakuto develops and produces equipment for printed-circuit board manufacturing systems under its own-brand. These products were developed to reflect market trends, and have earned an excellent reputation from customers in Japan and abroad.

## Industrial Chemicals

Petroleum Relating &  
Petrochemical Industry

Pulp & Paper Industry

Automotive Industry

Cosmetics

Other Industrial Water  
Treatment Chemicals

# Creating

*Creating original industrial products  
that contribute to  
the development of industries*

### Unique industrial chemicals optimize production processes

Hakuto draws on its unique development capabilities to manufacture eco-friendly industrial chemicals that also improve productivity. Products range from specialty chemicals mainly for use in petroleum and petrochemicals, paper and pulp, and automobile industries to cosmetic related products. Based on our credentials, we also distribute chemical products to Japanese companies on behalf of overseas manufacturers.



#### Petroleum Relating & Petrochemical Industry

- Corrosion Inhibitors •Antifoulants
- Demulsifiers •FCC catalyst additives



#### Pulp & Paper Industry

- Brown-Stock Washing Aids •Defoamers
- Deposit Control Aids •Felt Conditioner



#### Automotive Industry

- Over-Sprayed Detackifier
- Paint Sludge Removal System



#### Cosmetics

- Cosmetics Formula
- Cosmetics (OEM sales)



#### Other Industrial Water Treatment Chemicals

We are developing the environmental and effective Pure Green series and other eco-friendly products.

- Industrial Open Cooling Water Treatment Chemicals
- Water & Waste Water Treatment Chemicals
- Boiler chemicals



#### Quality and environmental efforts

All departments of the Chemical Business Division have received ISO9001 certification for standards in quality management system, and are working toward improving customer satisfaction. Our efforts to receive ISO14001 certification for environmental management systems include the development of environment-conscious products.

## Overseas

# Networking

*The innovative products developed and supplied to us from various companies in the world are delivered to our customers through the borderless network which connects each city in the market*

### Global network supports our customers to expand their business abroad

Hakuto's own brand products and the products we found elsewhere in the world by fully utilizing our globally extended network are sold in Japan and exported to the East and South-East Asian countries which have been rapidly growing in their economy. Hakuto will continuously support the overseas businesses of our customers in multiple aspects by actively establishing our overseas affiliated firms in Asia, offering the latest market and product information, expanding our sales network and offering efficient after-services for our products we delivered to customers.

