# Sohwa & Sophia Technologies Corporate Profile



April 1, 2024

# **Corporate profile**



Name

Sohwa&SophiaTechnologies Inc.

Established

April 1, 1983

Locations

Headquarters : Kanagawa

Tohoku Branch: Fukushima

Kyushu Branch : Fukuoka

Nagoya Branch: Aichi

Capital

JPY 497,500,000 (KURODA, DENSO)

CEO & COO

Seiji Konishi

**Employees** 

127 as of April 1, 2024

Contact

TEL: 044-981-5280 (Gen)

e-mail: webmaster@ss-technologies.co.jp URL: http://www.ss-technologies.co.jp

Headquarters

**■**Tohoku Branch



#### **Business**

#### **Products for R&D Engineers**

- Microprocessor development tools
- Personal Analyzers







#### Hardware & Software engineering and manufacturing services

- Embedded / Evaluation Board Development and Mfg.
- Electronic Circuit Design, Board Design & Mfg.
- •SI/PI/EMI/Electromagnetic Field Simulation
- FPGA Design
- OS Porting, Firmware Development
- Driver, Middleware, Application Development
- Product Evaluation / Debugging
- •OEM/ODM





# **Business Map**



We will meet our customer's needs as a partner of hardware & software engineering and manufacturing services, including electronic circuit design, and as a provider of test & measurement equipment, including debugging tools.

#### Customer

Embedded/Evaluation Board
Development & Mfg.
Electronic Circuit Design • FPGA Design
Simulation • Board Design/Mfg.

OS Porting
Firmware • Driver • Middleware
Application Development

0 E M 0 D M Equipment for ICT, On-vehicle, Network, Medical, Office, Broadcast, Imaging

# Sohwa & Sophia Technologies



Sales of Development tools



Outsourcing

#### **Dept.: Products for R&D Engineers**

- Own products sales
- •ICE, Reference board
- Personal Analyzer
- •EDA Application software

Partnership Alliance

- Training tools for education
- AuthorizedDistributor
- Heartland.Data products

• Reference board development

#### **Dept: Engineering & Mfg. Services**

- •120 Engineers
- Location: Kanto, Tohoku, Tokai, Kansai, and Kyushu
- 180 EDA tool licenses
- Various Test tools

#### **R&D Partner**

- Engineering makers
- Software development makers

## Mfg. Partner

- Board, Assemble
- EMS (domestic and foreign)
- Testing Agencies

#### Microprocessor, Microcontroller Partner (Semiconductor makers)

Domestic

Toshiba Semiconductor and Storage Products Company, Fujitsu Semiconductor, Rohm, Renesas Electronics, Seiko Epson,

Overseas

NXP, TI, Marvell, STMicroelectronics, Intel

#### **RTOS Partner**

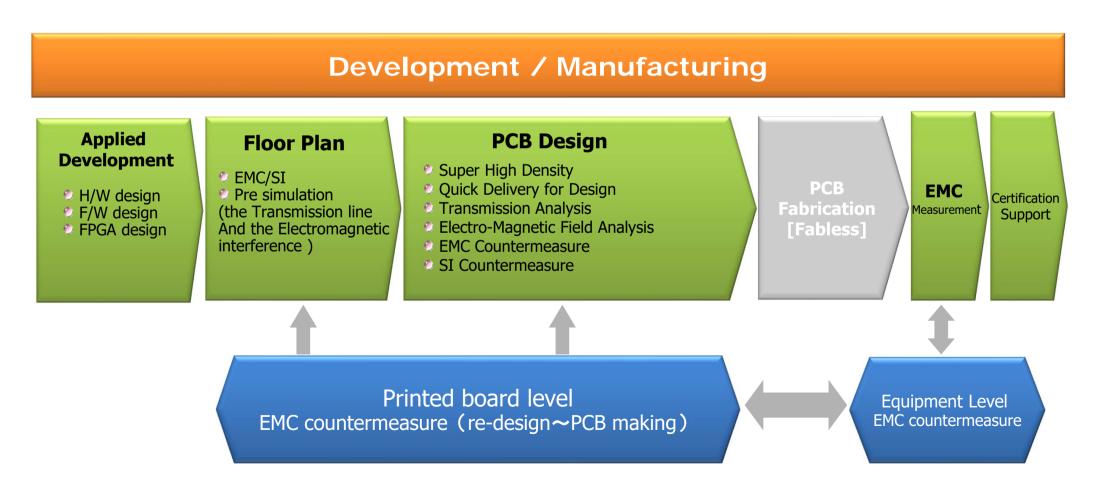
- Microsoft
- Linux vendors
- •µITRON vendors

#### **EDA Partner**

- AET
- Altium Cadence
- Fujitsu
- Mentor NEC
- ZUKEN



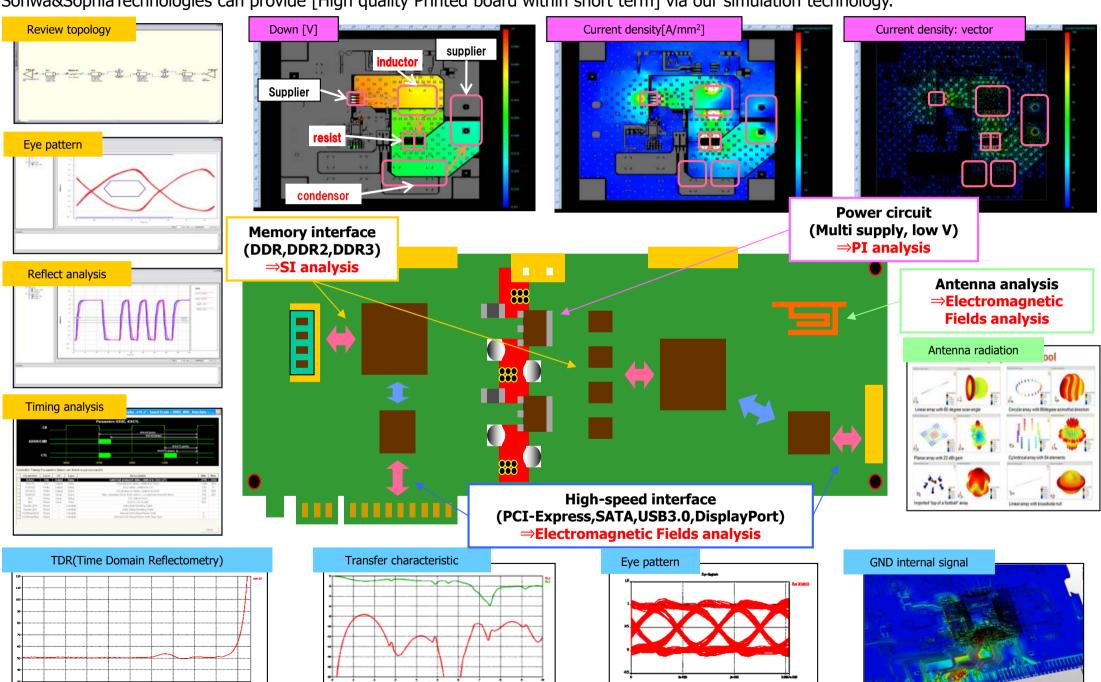
Sohwa&SophiaTechnologies offers Embedded development design total solutions with using the best technologies of development from the commission-development to high-performance design and manufacturing.



# **Engineering and Manufacturing Services (Simulation)**

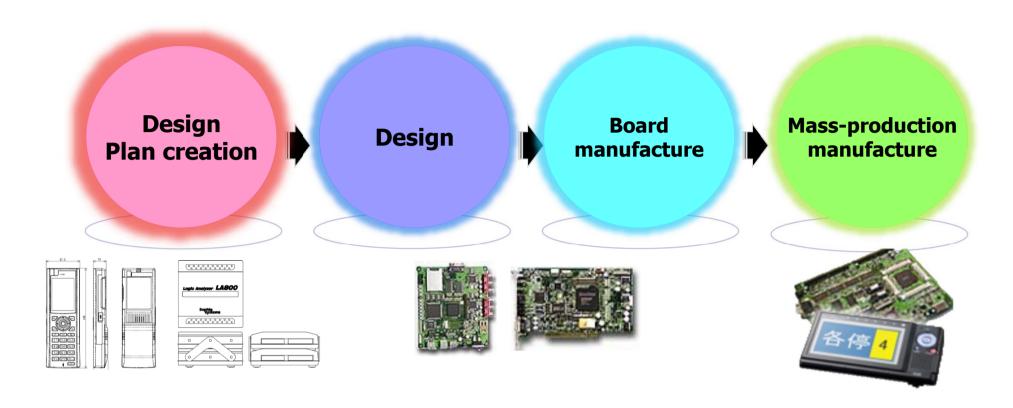


Sohwa&SophiaTechnologies can provide [High quality Printed board within short term] via our simulation technology.



# **Engineering and Manufacturing Services (OEM/ODM)**





When customers need help with their development or manufacturing, we can cover all this. Of course we can custom our platform design for customer request.

We can help with customer requests (problems) in regards to reduction of the cost, shortening scheduled delivery dates, and supporting complicated system debugging.

# **Engineering and Manufacturing Services Experiences**





# Product Development, OEM/ODM Experiences



## Industrial/Consumer Equipment

- On-vehicle: Engine ECU simulator
- Imaging: Digital signage
- \*Communication: Cable broadcasting equipment
- Security: In/Out security control board
- Music al instrument: Imaging effecter
- Measurement equipment : Data logger

- Railway: GPS Navigation terminal
- Home electronics: F-book terminal board
- •Instrument: Terminal board for visually handicapped
- Measurement equipment : Digital thermometer
- \*Semiconductor: Custom made ICE







# **Software Development**



## **OS Porting**

- Windows Embedded CE
- Android
- Linux
- µITRON
- TOPPERS

- Touch Panel
- •USB

- •12C

## **Driver Development**

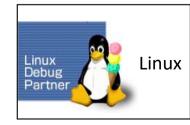
- LCD
- SD/SDIO
- Audio
- •NAND
- •UART
- •SPI

- - •IAN
    - WiFi
    - Zigbee
    - -CAN
    - Camera
    - NFC
    - •GPS
    - Battery etc



# Application Development

- Debugger application -Windows
- •T&M equipment application (Logic analyzer, Oscilloscope) -Windows
- Viewer relating application -Windows
- Network Voice Recorder Linux
- Internet Radio -Linux
- Store's PA systems -Linux
- Digital Thermometer
- Ultrasonic waves Soldering equipment



**µ**ITRON **TOPPOERS** 



Windows Embedded CE



# **Engineering and Manufacturing Services Experiences**





# Applied Development

# Printed circuit design

#### **Pictures**

- MPEG2 encoder development
- Developing of Digital picture editing systems
- Frame synchronizer circuit design

#### Intelligence Communications

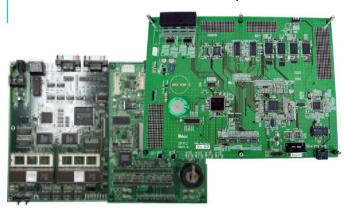
- Development of FTTH inside terminal
- Design of light module
- Development of Network equipment remote security system
- Design of super high speed WEB server

#### **Reference Boards**

 Development of evaluation board for various ASIC and Processors

#### FPGA Development

•for PHS Base Station •Telephone



## **Broadcast Station**

- System Equipment Camera
- Display Video Editor
- Digital VTR Audio Control System

## Office Equipment

- Copier Facsimile LBP Printer
- •Telephone •Multipurpose Office Machine

## Instrument

- Optical Communication Mobile
- Data Recorder Radiation Thermometer

#### **Automobile**

- Engine Control Unit
- ITS equipment

# Computer

- Personal Computer Workstation
- Peripherals Server Router

# I.T. Equipment

- Mobile Phone •PHS •PDA
- Base Station CPU Board
- Digital TV ·STB

#### Others

- Digital Camera
   FA Equipment
- Security Camera
   Security Video Monitor
- Entertainment Robot
   Industrial Robot
- Chip Set Verification Board For Camera
- Optical Module •X-Rays CT
- Ultrasonic Diagnosis Equipment

