Sohwa & Sophia Technologies

Corporate Profile

Engineering Solution Provider

- ●Sales of Debug tool for R&D engineers
- ●Contract Development & Manufacturing

Sohwa & Sophia Technologies

December 25, 2025

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Corporate profile

Sohwa & Sophia Technologies

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	Masakazu Shiota
Employees	131 as of April 1, 2025
Contact	TEL： 044-981-5280 (Gen)
	e-mail： webmaster@ss-technologies.co.jp
	URL： http://www.ss-technologies.co.jp

Business

Products for R&D Engineers
・Microprocessor development tools
・Personal Analyzers
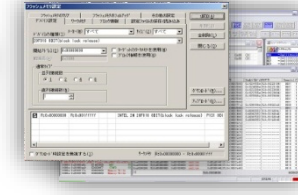
Hardware & Software engineering and manufacturing services
・Embedded / Evaluation Board Development and Mfg.
・Electronic Circuit Design, Board Design & Mfg.
・SI/PI/EMI/Electromagnetic Field Simulation
・FPGA Design
・OS Porting, Firmware Development
・Driver, Middleware, Application Development
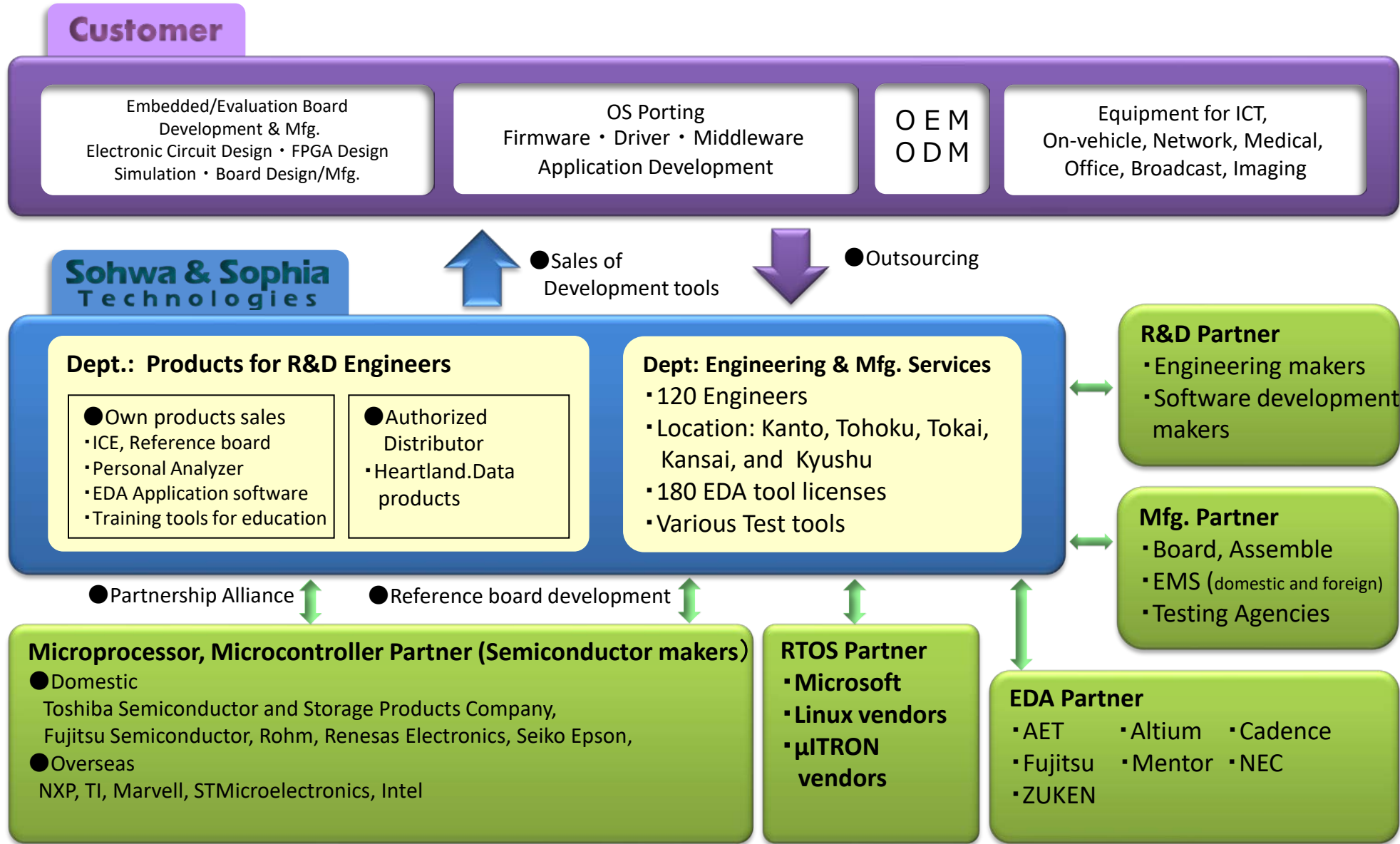・Product Evaluation / Debugging
・OEM/ODM

■Headquarters

■Tohoku Branch

■Kyushu Branch

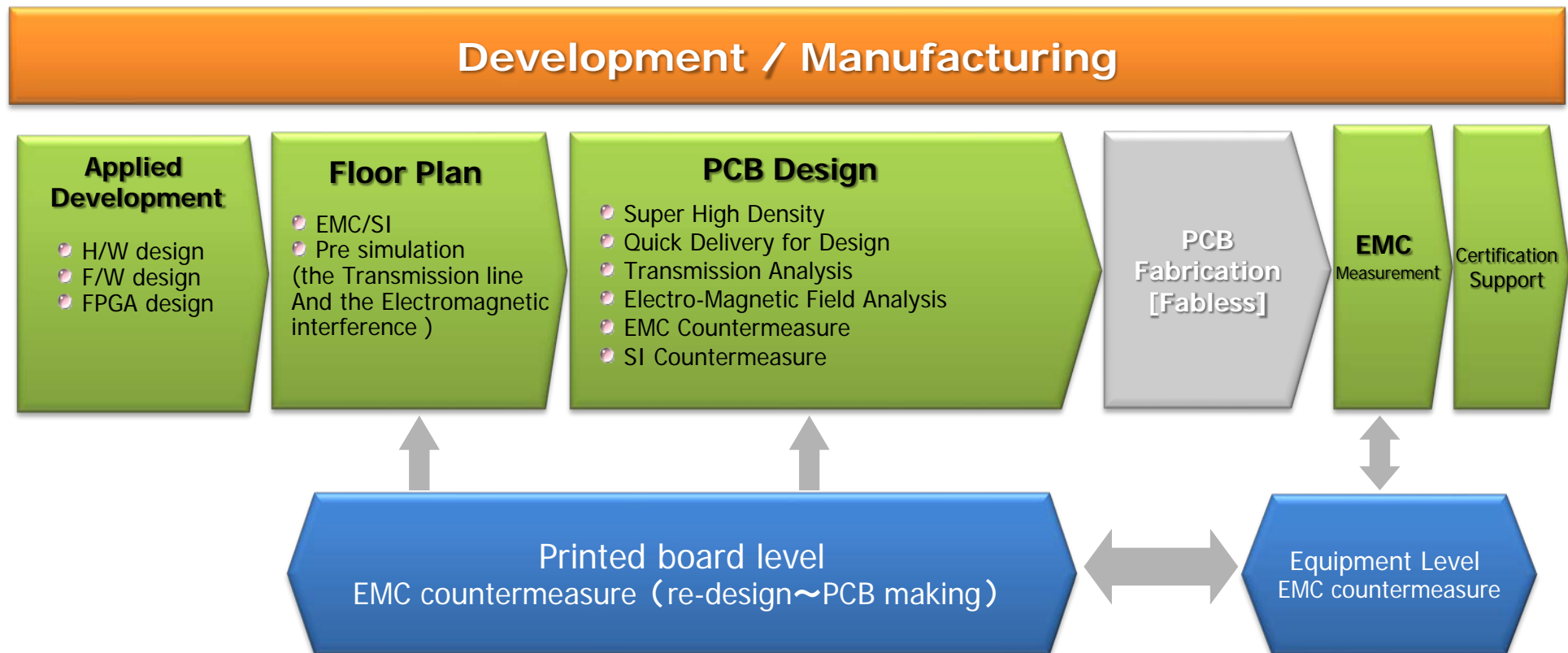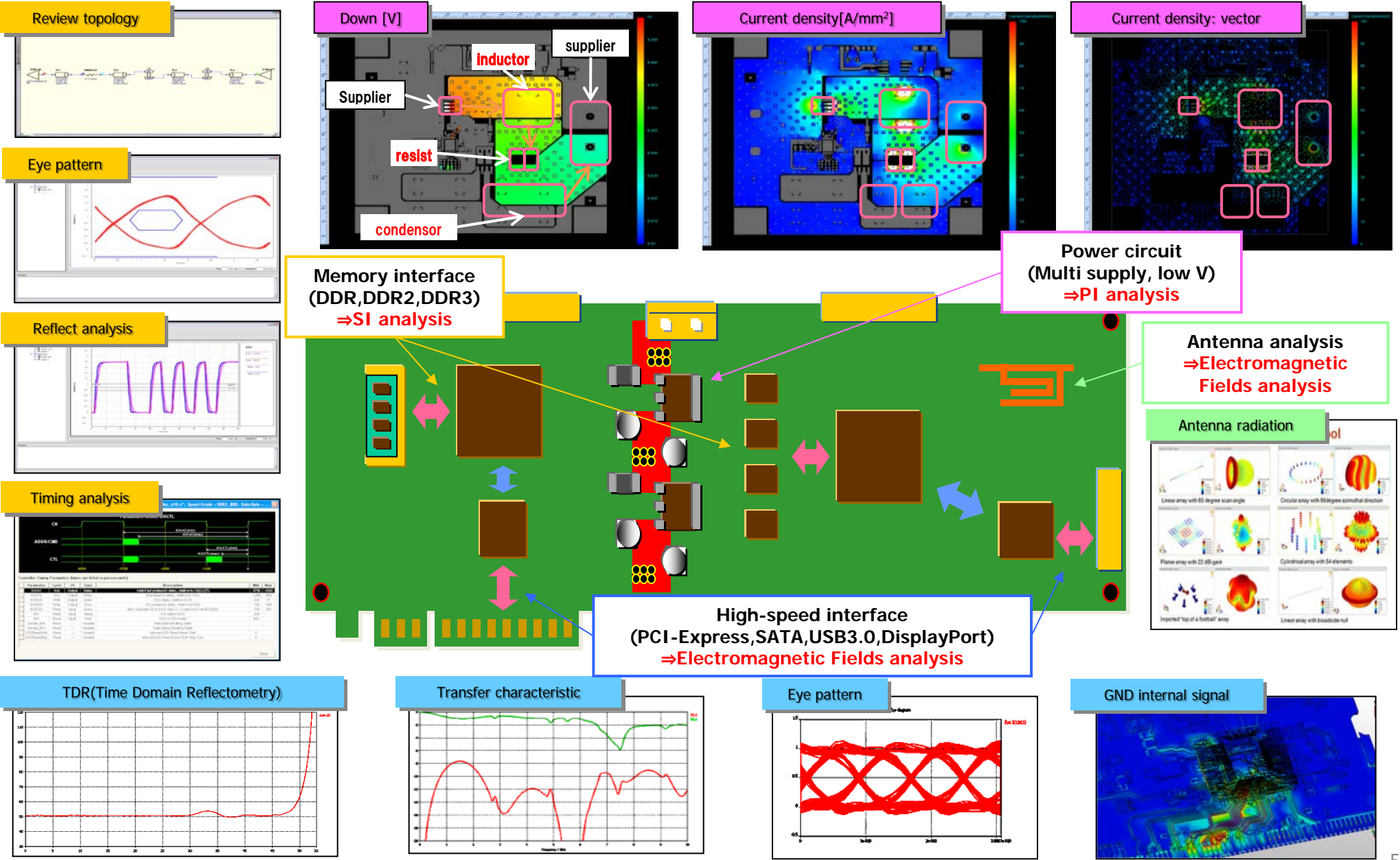■Nagoya Branch

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

●Sales of Development tools

●Outsourcing

Sohwa & Sophia Technologies

Dept.: Products for R&D Engineers

●Own products sales
・ICE, Reference board
・Personal Analyzer
・EDA Application software
・Training tools for education

●Authorized Distributor
・Heartland.Data products

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

●Partnership Alliance

●Reference board development

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

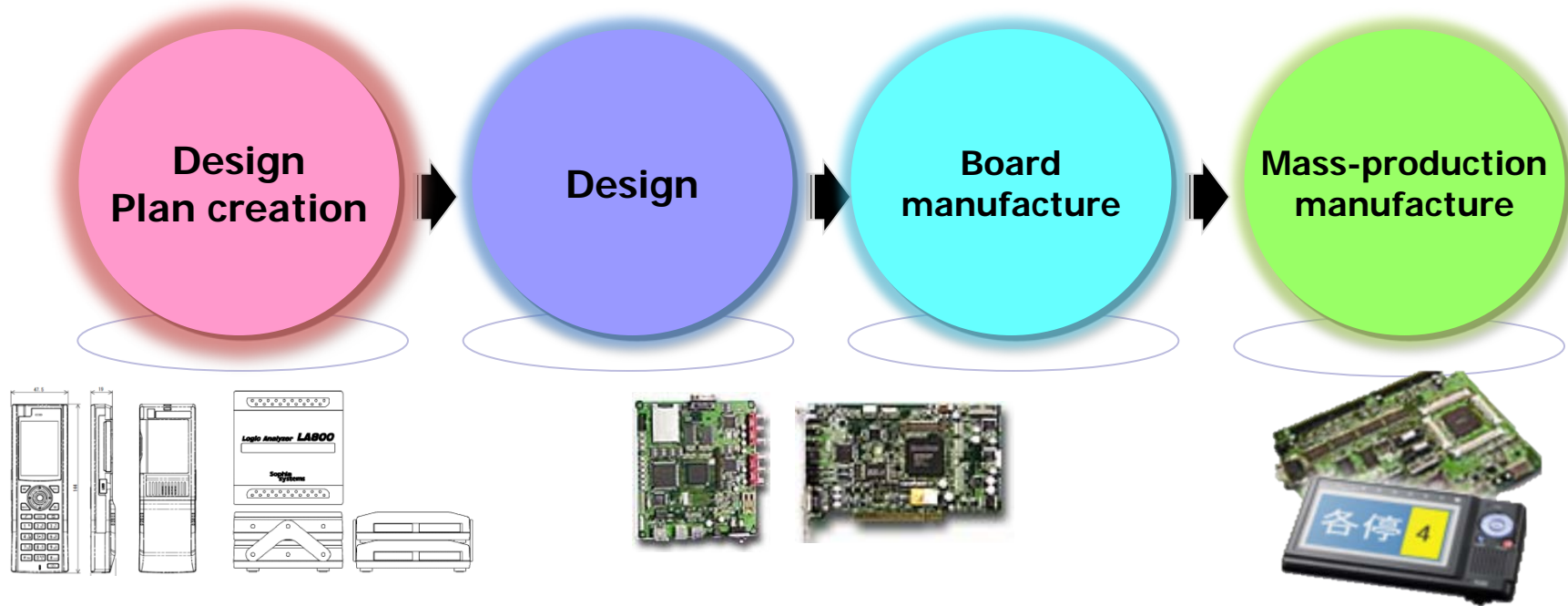# Engineering and Manufacturing Services （Board development）

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.

Development / Manufacturing

Applied Development
- H/W design
- F/W design
- FPGA design

Floor Plan
- EMC/SI
- Pre simulation (the Transmission line And the Electromagnetic interference)

PCB Design
- Super High Density
- Quick Delivery for Design
- Transmission Analysis
- Electro-Magnetic Field Analysis
- EMC Countermeasure
- SI Countermeasure

PCB Fabrication [Fabless]

EMC Measurement

Certification Support

Printed board level
EMC countermeasure （re-design〜PCB making）

Equipment Level
EMC countermeasure

Engineering and Manufacturing Services（Simulation）

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

Review topology

Eye pattern

Reflect analysis

Timing analysis

Down [V]

- Supplier
- inductor
- supplier
- resist
- condensor

Current density[A/mm²]

Current density: vector

**Memory interface
(DDR,DDR2,DDR3)
⇒SI analysis**

**Power circuit
(Multi supply, low V)
⇒PI analysis**

**Antenna analysis
⇒Electromagnetic
Fields analysis**

Antenna radiation

**High-speed interface
(PCI-Express,SATA,USB3.0,DisplayPort)
⇒Electromagnetic Fields analysis**

TDR(Time Domain Reflectometry)

Transfer characteristic

Eye pattern

GND internal signal

Engineering and Manufacturing Services（OEM/ODM）

Design
Plan creation

Design

Board
manufacture

Mass-production
manufacture

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

Sohwa & Sophia Technologies

🟡 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: E-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

◆ Driver Development

・LCD	・LAN
・Touch Panel	・WiFi
・USB	・Zigbee
・SD/SDIO	・CAN
・Audio	・Camera
・NAND	・NFC
・UART	・GPS
・SPI	・Battery etc
・I2C	

◆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

Windows Embedded CE

Windows® Embedded Partner

Android

Linux Debug Partner
Linux

μITRON
TOPPOERS
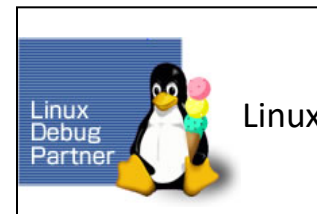
Engineering and Manufacturing Services Experiences

🟡 Applied Development

◆ Pictures

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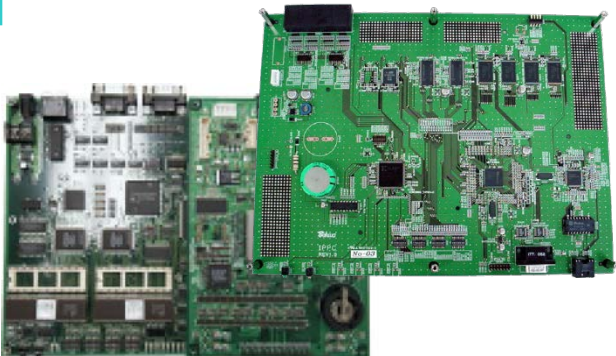・Frame synchronizer circuit design

◆ 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

🟢 Printed circuit design

◆ Broadcast Station

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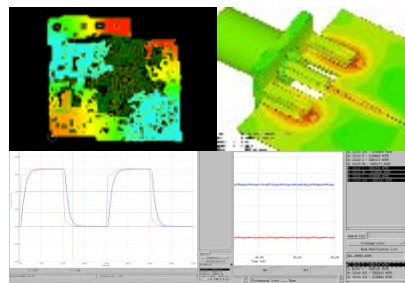・Digital VTR　・Audio Control System

◆ Office Equipment

・Copier　・Facsimile　・LBP　・Printer
・Telephone　・Multipurpose Office Machine

◆ Instrument

・Optical Communication　・Mobile
・Data Recorder　・Radiation Thermometer
・Laser Scale　・Digital Communication

◆ Automobile

・Engine Control　Unit
・ITS equipment

◆ Computer

・Personal Computer　・Workstation
・Peripherals　・Router　・Server

◆ 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