



Summit Electronic Components Co., Ltd

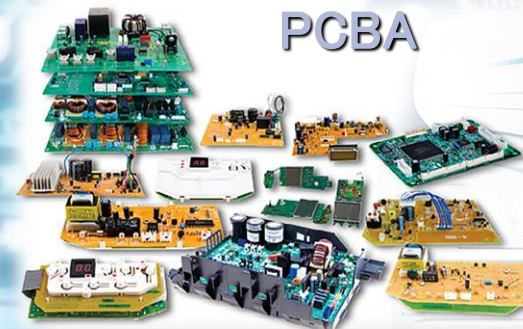
Welcome to 100% Thai Owner Factory



"ALWAYS YOUR FRIEND"



PCBA



Box Build/Set Ass'y



Automotive 1st Tier



•Established	11 September 1987 (Move to 30 Years)
•Capital	34 Million Bahts
•Address	99 Moo 5 Soi Watsrivareenoi , T. Srisajorkaeyai , Bangsaothong Minor District , Samutprakarn 10540. Website : www.summitsec.com
•Board of Directors	- Chairman : Mr. Sunsun Jurangkool - Managing Director: Mr. Somkurn Chysilaparungroung - Factory Manager : Mr. Sonthong Sukatchasakul
•Employee/Qty	- 1,200 Persons
•Site Area	- Total Area 27,000 m ² - Production Space 14,735 m ² - Office Area 1,584 m ²
•Business Type	- Print Circuit Board Assembly (PCBA). - Electronic Manufacturing Service (EMS) - Automotive 1 st Tier for Car Audio such as : Antenna, Speakers , Assembly support and Services.

SONY
HI-Tech IE

NEC
Navanakorn IE

HONDA
Rojana IE



STANLEY
Bang-Kadee IE



Bangkok
International Airport
(Don-Muang)

Outer Ring-Rd.

Mac
Lad-Krabang IE

HONDA
Lad-Krabang IE

FUSO
Lad-Krabang IE



Bangkok

Chao
Pra-ya
River

Sukumvit Rd.

Samutprakarn

New Bangkok Int'l Airport
(Suvarnabhumi)



SEC
Always Your Friend

Wellgrow IE

SHARP

DAIKIN

SONY
MITSUBISHI ELECTRIC

Amata Nakorn IE

TOYOTA
ISUZU

SAB

SAS

THAI SUMMIT GROUP
KAGA ELECTRONICS CO., LTD.

NISSAN

DELTA

Panasonic

Bang Boa

Sukumvit Rd.

Bang Poo IE



Gulf of Thailand

To Pattaya

SEC from TOP VIEW

MAIN BUILDING
EMS BUSINESS

CANTEEN

FOOTBALL FIELD

NEW BUILDING
AUTOMOTIVE BUSINESS



We're here.

SEC

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SEC HISTORY (1987 - 2017)

Facility, Customers, Activities, Quality

1987
SEC
Established.

1988
SONY(SPEC

*HiFi OP
*FD Head
*Magnetic Head
-S Activity Introduced

1989
-MUDA Tooling Introduced

1990-91
-CEDAC Tooling Introduced

1992-93
AIWA
MITSUBISHI
SIAM NISSAN
*Car Cassette Radio

1994
SONY
*Car Radio & CD Player

1995
SONY
*CD ROM OP
*Car CD OP

-KAIZEN Activities & IE technical Introduced

1996-97
-ISO 9002 Certified

1998
-ISO 14001 Certified

1999
-QS-9000 Certified

2000
PCBA start
SHARP

*Digital Cordless Phone
SHARP/ROXY
*CD OP

YOKOWO/
MITSUBISHI
*CarAntenna

2001
TRW/HONDA
*Motorcycle Speedo Meter

SONY /
MITSUBISHI
*Car Radio

2002
KAGA/DAIKIN
*Air condition Inverter PCBA
SONY/
SIAM NISSAN
*Car Radio

YOKOWO/
MITSUBISHI
*Micro Antenna for Lancer

2003
TRW /HONDA
*Logistic Service

2004
-ISO9001: 2000
Certified
SEC&GMAC
AI/SMT Capacity Up
KAGA/
MITSUBISHI
*Air condition PCBA

2005
SEC&VITEC

*Car Radio
-CLARION
-SANYO
-PANASONIC
*Back Light Inverter

-HITACHI
-GOH : FEC

*Rice Cooker
-CANNON
*Printer
-PANASONIC
*Rain Wiper for TOYOTA.

YOKOWO/
MITSUBISHI
*MicroAntenna for Triton Space Wagon
PANASONIC
*Rain Wiper

2006
SHARP
*Air Condition
*Humidifier
KAGA/HAPE
*Air Condition
*Box Built

2007
SHARP
*Microwave
TRW /SRS-TMT
*ECU/Sensor
SONY /ISUZU
*Car Radio

2008
-TS-16949
*Car Antenna Assembly
YOKOWO/
MITSUBISHI
*Antenna for Pajero Sport

2009
SHARP
*Plasma Cluster
SYNERGY
*NGV/ ECU

2010
Facilities
-PCB CAD
-3D CAD
ATC/
HAIER &SANYO
*Refrigerator
SHARP
*Refrigerator

2011
Facilities
*Potting M/C
*X-RAY M/C
*Inspection
YOKOWO/IMCT
*AM/FM Antenna for D-Max

2012
HITACHI
*Refrigerator
KANYONG
*Refrigerator
OHTORI
*Po. Sensor PCBA
KAGA/AMPAS
*Turning Light Lamp PCBA

2013
-LED Lighting
KAGA/TOSHIBA
-Air Condition
HITACHI HITEC
.Refrigerator

Facilities;
-New SMT Line
-ESD Floor AI

2014-15
Facilities;
-New SMT Line
-ESD Floor EMS
HITACHI
*Washing M/C
LOXLEY/
4SYSTEMS
-DVBT2 Home
-DVBT2 Car
Hyundai Motor
-Battery saving kit

2016-17
Facilities
-Clean Room.
-Stencil Cleaning m/c
-First Article Inspection(FAI)
-RoHs X-Ray Equipment

AI Department SMT Processes

Solder
Printer

Glue
Dispenser

Chip
Mounter

IC
Mounter

Reflow
Oven

AOI

OQC

QA



SMT : Machines Models and Capacity

	Solder Printer	Glue Dispensor	Chip Mounter	IC Mounter	Reflow Oven	Pb Free	AOI	Capacity/month Million Shot
1	PANASONIC SP-G		PANASONIC NPM-W		JT RS-1000	 10 ZONE	OMRON VT-RNS II	15.0
2	SONY SI-P850		PANASONIC CM-602L		EIGHTECH A30-102	 10 ZONE	OMRON VT-RNS II	13.5
3	SONY SI-P850		SONY SI-G200AA	SI-G200BB	SALAMANDER XNK-738PP	 7 ZONE	SONY SI-V200	11.2
4	MINAMI MK-880SV	HSD-X	YAMAHA YV100		SALAMANDER XCB-738PP	 7 ZONE	SAKI BF18D-N40	2.3
5	GKG G5		SANYO TCM-3000Z	SAMSUNG SM-421	SALAMANDER XCB-738PP	 7 ZONE	SAKI BF18D-P40	5.7
6	MINAMI MK-880SV	SUZUKI KS-AD3	SONY SSH2F	YAMAHA YV-100II	SALAMANDER XNB-738PP	 7 ZONE	SAKI BF18D-P40	6.4
7			PANASONIC HDP-G1		EIGHTECH AIS-301	3 ZONE	SAKI BF18D-P40	8.5
8			PANASONIC HDP-G1	YAMAHA YVL-88	SALAMANDER XCIII-525PZ	5 ZONE	SAKI BF18D-P40	4.1
9	MINAMI MK-878-SV		PANASONIC MV2F(XL)		EIGHTECH AIS-2062	 6 ZONE	SAKI BF18D-P40	7.4
10	MINAMI MK-880-SV		PANASONIC HDP-G3		SALAMANDER XCA-645PC	 6 ZONE	SAKI BF18D-P40	8.2
11			PANASONIC HDP-G1		SALAMANDER XIII-C 525PZ	5 ZONE	SAKI BF18D-N40	6.4
12			PANASONIC HPD-G3		SALAMANDER XCIII-525PZ	5 ZONE	SAKI BF18D-P40	6.0
13			PANASONIC HDP-G1		EIGHTECH AIS-301	3 ZONE	SAKI BF18D-P40	6.0
14	MINAMI MK-868SV		PANASONIC MSH2		EIGHTECH AIS-2082CRLF	 8 ZONE	SAKI BF18D-N40	6.4
Total Capacity Pb Free per Month (Solder only)								76.1
Grand Total Capacity per Month (Solder + Glue)								107.1

A / I Department Auto Insertion Processes

Eyelet

JV

AV

RH

VC



A/I : Machines Models and Capacity

	M/C	BRAND	MODEL	TACT TIME (Sec)	Capacity/Month (Million Shot)	1	2	3	4	5	Capacity/Month Million Shot
1	EYELET	KYOSHIN	DIET	0.80	1.0						4.0
2	JUMPER	PANASERT	JVK	0.20	4.2						8.4
4	AXIAL	PANASERT	AV-132	0.12	6.8						6.8
6			AVG	0.39	2.1						4.2
7			AVK	0.15	6.3						18.9
8	RADIAL	PANASERT	RH-131	0.25	3.2						3.2
9			RH6	0.60	1.4						1.4
10			RH3	0.36	2.6						13.0
TOTAL EYELET CAPACITY per Month [4 M/C]						4.0					
TOTAL JUMPER CAPACITY per Month [2 M/C]						8.4					
TOTAL AXIAL CAPACITY per Month [6 M/C]						29.9					
TOTAL RADIAL CAPACITY per Month [7 M/C]						17.6					
GRAND TOTAL CAPACITY per Month [19 M/C]						59.9					

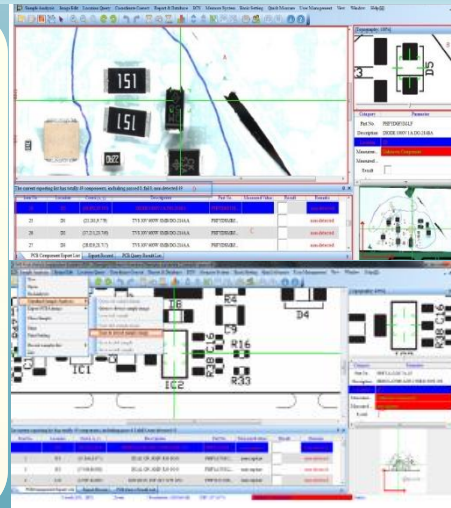
New Facility Clean Room Class 100K



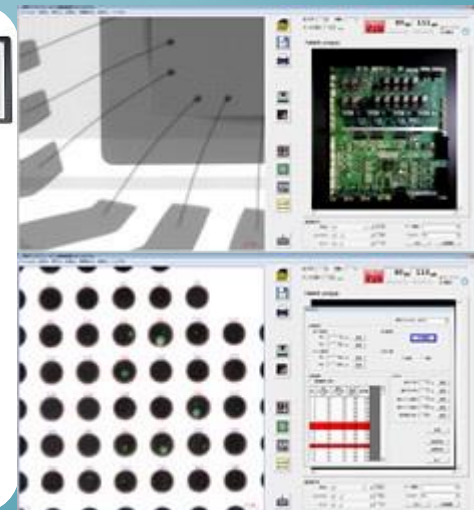
SMT LINE IN CLEANROOM
CLASS 100K

New Equipment/Machine

First Article Inspection Machine (FAI)



2D X-RAY Machine



M/I Department PCBA Final Assembly

MII

WAVE
Soldering

VC

ICT/FCT

OQC

QA



PCBA Level Product Samples

Customers

HITACHI
Inspire the Next

SHARP

KAGA
ELECTRONICS
CO., LTD.

DAIKIN

DELTA

MITSUBISHI
ELECTRIC

MOQ

SONY

Panasonic

PCBA Invertor
Main Boards
etc.



LCD Back-light Inverter



Air-Con. Inverter



Air-Con. Inverter

Car Radio
Main Boards &
Tuner
etc.



Car Radio Tuner Pack



Car Radio



Car CD Player

Others
- Clamp Meter
- Cordless Tel
- Humidifier
- Air Controller
- Rice Cooker
etc.



Clamp Meter



Cordless Telephone



Portable Air-Controller

Assembly Sets Level Products Samples

Customers



-Motorcycle
Speedo Meter

-Cordless Tel.
-Remote



Speedo Meter



Cordless Telephone



Room Temperature
Remote Control

Car Radio Set



2DIN MP3/CD Car Radio



1DIN CD Car Radio



OEM Car Radio

Our Development (R&D) Products Samples

Customers
R(evolution)²

SMOFS™
MOBILE BIOMETRIC SOLUTIONS

HYUNDAI

-Agriculture
Product
develop



HPS LIGHTING 1,000W

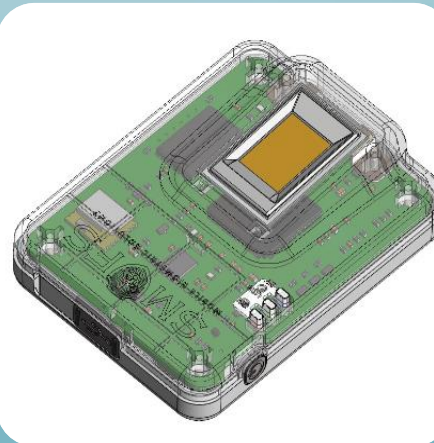


OEM Controller



Lighting Control

- Finger print
- Battery Saving



Finger Print scan



Battery Saving Kit

Automotive 1st Tier Products Samples

Customers



ISUZU

SONY

Car Radio
Supporting



TWD, INC.

Car Speakers
Supporting



yokowo

Car Antennas
Supporting



AM/FM Micro Antenna (150mm)
(Fixed Element Type)



AM/FM Micro Antenna (150mm)
(Clicked-stop Element Type)



AM/FM Micro Antenna (150mm)
(Self-supporting Type)

R & D (Products Design Support)

DESIGN TO
REALIZATION

Altium 17
Designer

Complete Environment
For Schematic + Layout

BUILT FOR ZERO FAIL
APPLICATIONS

1) Circuit Design

SOLIDWORKS

AUTOCAD

2) Hardware Design

3) Software Design



SMOFS
MOB. & WATER-PROOF SYSTEMS

Our Customers



Our Partners

ASOATEC



Z. KURODA
THAILAND CO., LTD.

SIX SUMITRONICS



Vitec

yokowo

TRW
Automotive



KAGA ELECTRONICS CO., LTD.

Part Quality Assurance (PQA) / QA

Quality Assurance Equipment & Reliability Test



TMM
2-D Dimension
Measuring



CMM
3-D Dimension
Measuring



Vibration
Tester



Temperature
and
Humidifier Chamber



SEC's Family Group



Established in 1972

Summit Group. is the Leading of auto parts manufacturer in Thailand for Seat, Over Head, Flooring, Instrument Panel , Door Trim, Steering Wheel, Noise Vibration Harshness, Interior Plastic, Exterior Plastic, Exhaust System, Body Parts, Rolled Formed Parts, Mechanism Parts.

- **More than 30 subsidiary Companies.**

- Oversea facilities : China, India, Vietnam and Indonesia.

- 2 Golf Clubs

- Site : www.summitautogroup.com

***** SEC joins to this group ******

Established in 1977

Thai Summit Group is the leading of automotive parts manufacturer of Thailand. For examples : all automotive parts, Motorcycle parts, Agricultural machinery and Electric industries appliances for assembly of the molded parts, assemblies components, plastic injection and blow molded parts, aluminum die-casting parts, Wiring Harness for automobile, Tooling for metal & plastics and assembly jigs .

More than 40 subsidiary companies

Oversea : Malaysia, Indonesia, Vietnam, India, China, Japan and US.

Hotel, Golf & Sport Club

Site : www.thaisummit.co.th/

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Thank you
very much
for
your
attention!