

Investor Relations 2018

Your most trustworthy



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YMT Corporation, since its establishment in 1999, has focused on its continuing growth based on the conviction to maintain its position as a major player in electric material industry which serves not only to everyday lives such as automobile, electronics, and high-tech, but also to industrial facilities, and its concerted efforts from all employees.

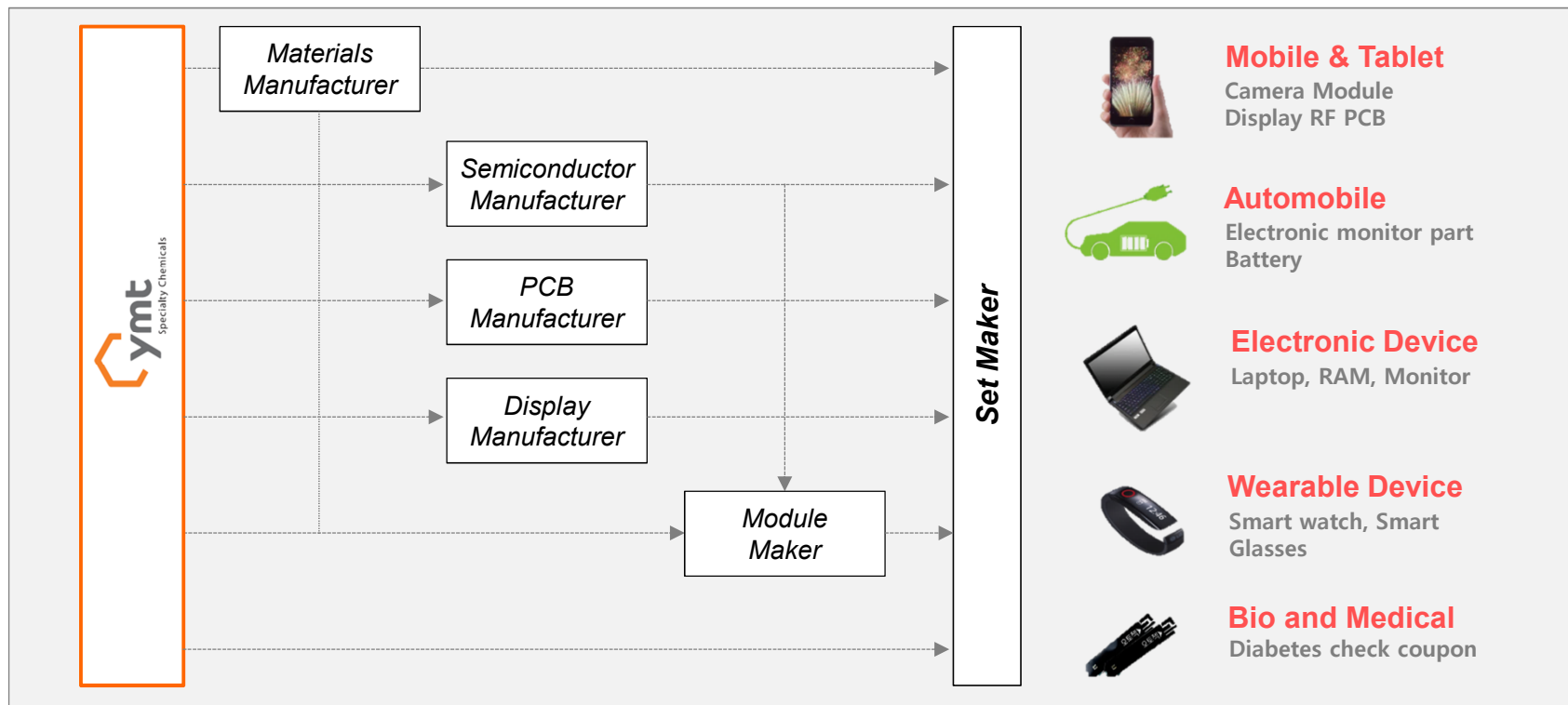
We will relentlessly endeavor to become the best-in-class enterprise in the 21st century beyond the current success, manufacture the highest quality products in efficient manners, and supply them on time to satisfy the client demands.

COMPANY PROFILE

Business Overview

YMT is chemical manufacturing company for PCB and Semiconductor field. YMT chemical is mainly used for FPCB,RFPCB part of I-Phone series and Galaxy series.

- ✓ Sales Category: Gold Plating chemical [Soft ENIG / ENIG / ENEPIG] , Copper plating chemical, Process Chemical
- ✓ Major Customer: ZDT [Foxconn], SEMCO, Youngpoong, BH Flex, Daeduck



COMPANY PROFILE

Location & Subsidiaries

YMT HQ

- Incheon, Korea
- 142 employees (HQ), / 250 employees (Total)
- 2 R&D Center
- Main Manufacturing location

YMT China (Shenzhen) Co., Ltd

No.509, Hongan Business Center, Xinqiao Integration BLDG,
Beihuan RD, Shajing St, Baoan District, Shenzhen, CNS18125
Tel. +86-755-2946-6201

YMT China (Shenzhen) Kunshan Branch

Lujia Town, Kunshan City, Jiangsu Province Hefeng
Village, Jinzhu Road No.18 CN215331
Tel. +86-0512-3669-8439

YMT Taiwan Branch

1F, No.51, Housheng RD, Luzhu City, Taoyuan County 338, Taiwan
Tel. +886-3-3220808

Rizhao Factory

South of Shanghai RD, West of Xian Dai RD, Rizhao Economic
Development Zone Rizhao City, Shandong Province,
China 276800
Tel. +86-633-227-8778

YMT Vina(Vietnam) Co., Ltd

F6, Room602, MB Bac Ninh Building, No.24,
Ly Thai To Street, Bac Ninh City, Vietnam
Tel. +84-24-1625-1238 Fax. +84-24-1625-1288

본사/1공장 HQ/Factory 1

인천광역시 남동구 남동대로 153번길 30
Tel. 032-821-8277 Fax. 032-821-8271

2공장 Factory 2

인천광역시 남동구 청능대로 337
Tel. 032-821-8277 Fax. 070-4009-0403

와이피티㈜ YPT Co., Ltd.

경기도 안산시 단원구 신원로 147
Tel. 031-492-8278 Fax. 031-493-8278

부산출장소

부산광역시 강서구 녹산산단 382로 14번가길 20
부산청정도금센터 406호
Tel. 070-7596-2510 Fax. 051-714-5270

Supplier of Advanced Electronic Materials

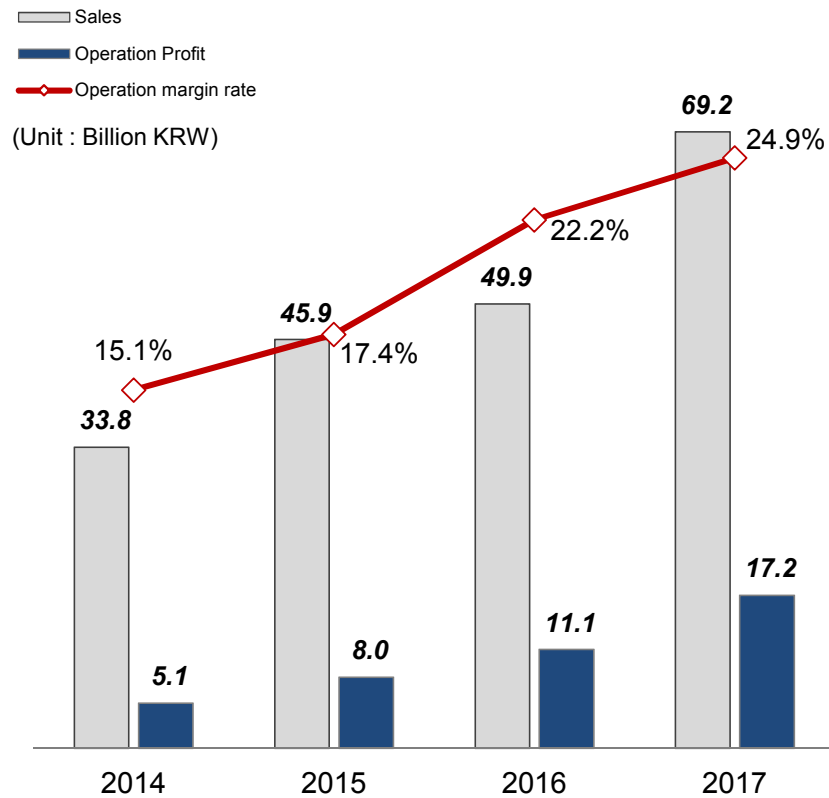
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YMT Group Sales & profit



- **High leverage for margin rate by sales increasing**

- ✓ R&D labor cost is kind of main cost factor
- ✓ Small capacity investment, Depreciation cost

- **Market share Expansion**

- ✓ Globally, 50% shares of Gold plating chemical for FPCB & RF PCB.
- ✓ Expansion for Copper plating chemical market in Korea

- **High value & performance chemical**

- ✓ Before, plating chemical market was only for Japan, Germany and USA companies.
- ✓ Other companies (in Korea / Taiwan) made Etchant, Remover kinds of lower value chemical.
- ✓ However, YMT focus the chemical has high profit (SOFT ENIG, ENEPIG) based on R&D power.

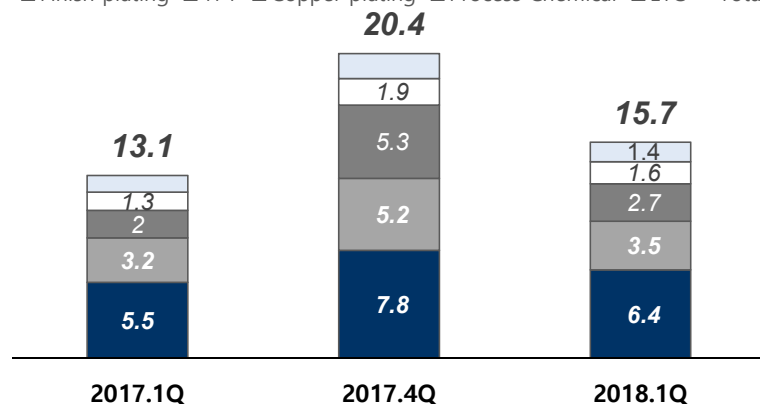
Business Performance

1Q. 2018

Sales by business area

(Unit : Billion KRW)

■ Finish plating ■ YPT ■ Copper plating □ Process Chemical □ ETC Total



(Unit : Billion KRW)

	2017.1Q	2017.4Q	2018.1Q
<i>Total</i>	13.1	20.4	15.7
<i>Finish plating</i>	5.5	7.8	6.4
<i>YPT(Plating Outsourcing)</i>	3.2	5.2	3.5
<i>Copper plating</i>	2.0	5.3	2.7
<i>Process Chemical</i>	1.3	1.9	1.4
<i>Etc</i>	1.2	3.4	1.6

Income statement

(Unit : 100 million won)

	1Q.2018	1Q.2017
I. Sales	156.6	131.3
II. CoGS	95.7	79.6
III. Gross profit	60.9	51.8
IV. Operation profit	32.9	28.9
Non Operating income	1.4	1.4
Non operating cost	0.9	1.8
Financial Income	1.3	0.8
Financial cost	4.6	9.7
V. Profit before tax	30.2	19.6
Tax	7.5	4.7
VI. Net profit	22.6	14.9

Supplier of Advanced Electronic Materials

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Market

PCB Market & YMT Business area

- Current major market
- 2018 start

		FPCB, RFPCB	HDI	PKG	RIGID
Customer	Domestic	<ul style="list-style-type: none"> • SEMCO • BH Flex • Youngpoong • Interflex 	<ul style="list-style-type: none"> • SEMCO • Daeduck • LG Innoteck • KCC 	<ul style="list-style-type: none"> • SEMCO • Daeduck • LG Innoteck • KCC 	<ul style="list-style-type: none"> • Hyunwoo
	Global	<ul style="list-style-type: none"> • Zhending Technology • Career • Unimicron • Mektron 	<ul style="list-style-type: none"> • AT&S • Zhending Technology • Ibsiden 	<ul style="list-style-type: none"> • AT&S • Zhending Technology • Ibsiden 	<ul style="list-style-type: none"> • Various
Process Chemical		<ul style="list-style-type: none"> • Market share expansion 	<ul style="list-style-type: none"> • Penetration by SLP chemical in 2018 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Globally, Small market share
Cu Plating	Electroless	<ul style="list-style-type: none"> • 15% ~ 20% in Korea market 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • 1Q. 2018 start 	<ul style="list-style-type: none"> • Developing
	Electro	<ul style="list-style-type: none"> • Market share expansion 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing
Finish Plating	Electroless	<ul style="list-style-type: none"> • Globally, over 50% 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Globally, Small market share
	Electro	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing 	<ul style="list-style-type: none"> • Developing

Customer

End user & Major customer list

<p>Set Maker</p>						
<p>Semi- conductor Maker</p>						
<p>PCB Maker</p>						
						
<p>Display 업체</p>						

Total Solution for Customer

YMT offers total solution for PCB manufacturing chemical based on own technology from Etchant to Gold plating chemical.



Finish Plating Chemical

Soft ENIG Process

- ✓ CF 300 Series
- ✓ MIKO Series

ENIG Process

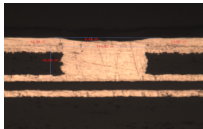
- ✓ PEN 855 Series

ENEPIG Process

- ✓ ELP Series
- ✓ IR Gold Series

TIN Plating process

- ✓ Bright and Matte finish
- ✓ Immersion tin process



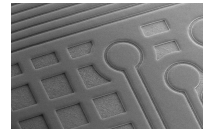
Copper Plating Chemical

Electroless Copper plating

- ✓ Desmear Process
- ✓ HVF Series
- ✓ MJH Series

Electronic Copper plating

- ✓ BJ series
- ✓ HBJ Series(Half-fill)
- ✓ VFBJ Series(Via-fill)



Process & Display Chemical

DES Chemical

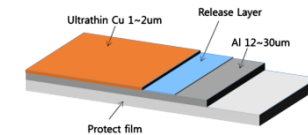
- ✓ DR Series
- ✓ SE Series
- ✓ SAC Series

Cleaner

- ✓ FXC Series
- ✓ TDF / MDF Series

Others

- ✓ Gold Recover
- ✓ Foamkiller Series
- ✓ CAROAT



Electronic Materials

Materials

- ✓ Ultra-thin copper Foil
- ✓ FCCL

Roll to Roll

- ✓ RTR outsourcing

Outsourcing Plating

Gold plating Outsourcing

- ✓ Soft ENIG / ENEPIG

Via-fill copper plating

Business Area

Products Introduction – Finish Plating

Soft ENIG Process ensures finish plating to prevent oxidation of copper and protect surface of circuit board & semiconductor, and boasts the **world-class technology with #1 in global market share** among gold plating process for materials.

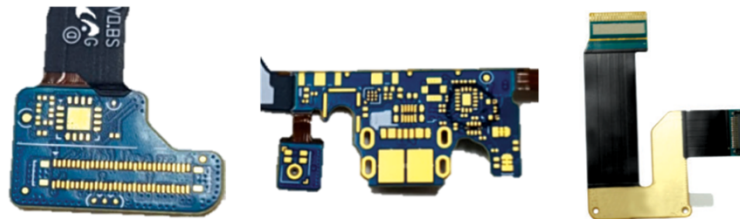


Soft ENIG Process


- Gold plating process dedicated solely for FPCB
- #1 in global market share and technology level
- Applicable for ultra-fine circuits
- Excellent anti-bending to resolve nickel crack issue
- Samsung and Apple products adopted the processed materials



Source : Ifixit



Circuit Board after Gold Plating Process

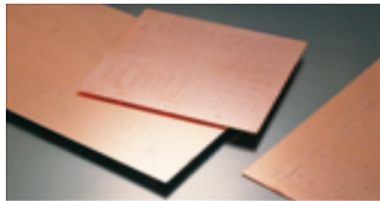


ENEPIG Process

- Finish plating for fine circuits suitable to camera module
- Leading global market share
- Cost efficiency and technological competitiveness

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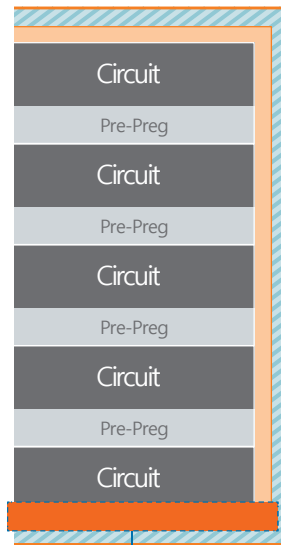
Chemicals for processing which allows electric connectivity between layers through copper plating of processed holes by drill – increasing demand for multi-layer and miniaturization of circuit boards to drive demand for high-end copper plating chemicals.



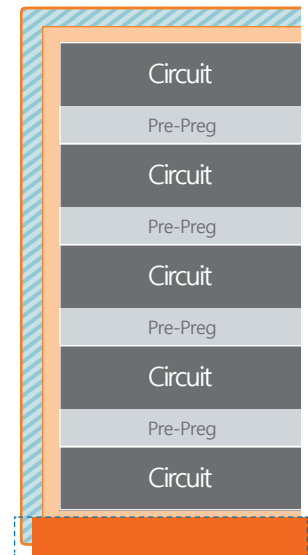
Electroless Copper Plating

- World-class technology
- Process to provide nonconductor with chemical conductivity
- Revenue expected to grow substantially starting 2017

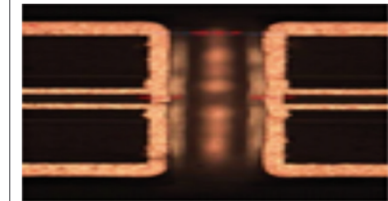
PCB Hole Structure



Electroless Copper Plating



Electronic Copper Plating



Electronic Copper Plating

- Process for copper plating of desired width by extraction of the copper
- Suitable for forming the desired location and width
- Excellent in maintaining uniformity of plating width than the competitors
- Cost advantage due to high yield

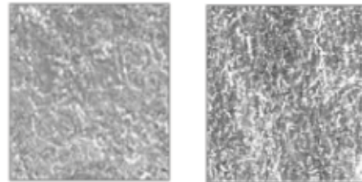
For manufacturing PCB, It requires more than 180 kinds of process. So, customer wants to takes **total chemical solution for whole process** because each process affect next process. YMT has more than 300 kinds of item to satisfy **performance and quality of customer.**



DR Series (Releasing)

- Diverse releasing agents suitable to products by different clients
- Fast releasing effects and high yields

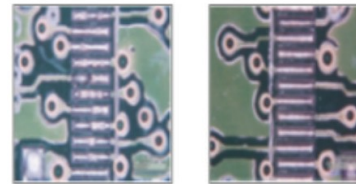
Before After



SE Series (Soft Etching)

- Allows consistent copper roughness
- High yields by better grip of D/F and PSR

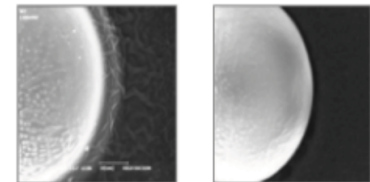
Before After



Gold Recover

- Removal of contaminants on gold surface after surface processing
- Excellent cleaning capacity compared to the competitors

Before After



Cleaner

- Two types of deflux cleaners (water, organic)
- Reduces deflection by removal of dust inside the equipment
- Eco-friendly products without toxic substances such as methanol

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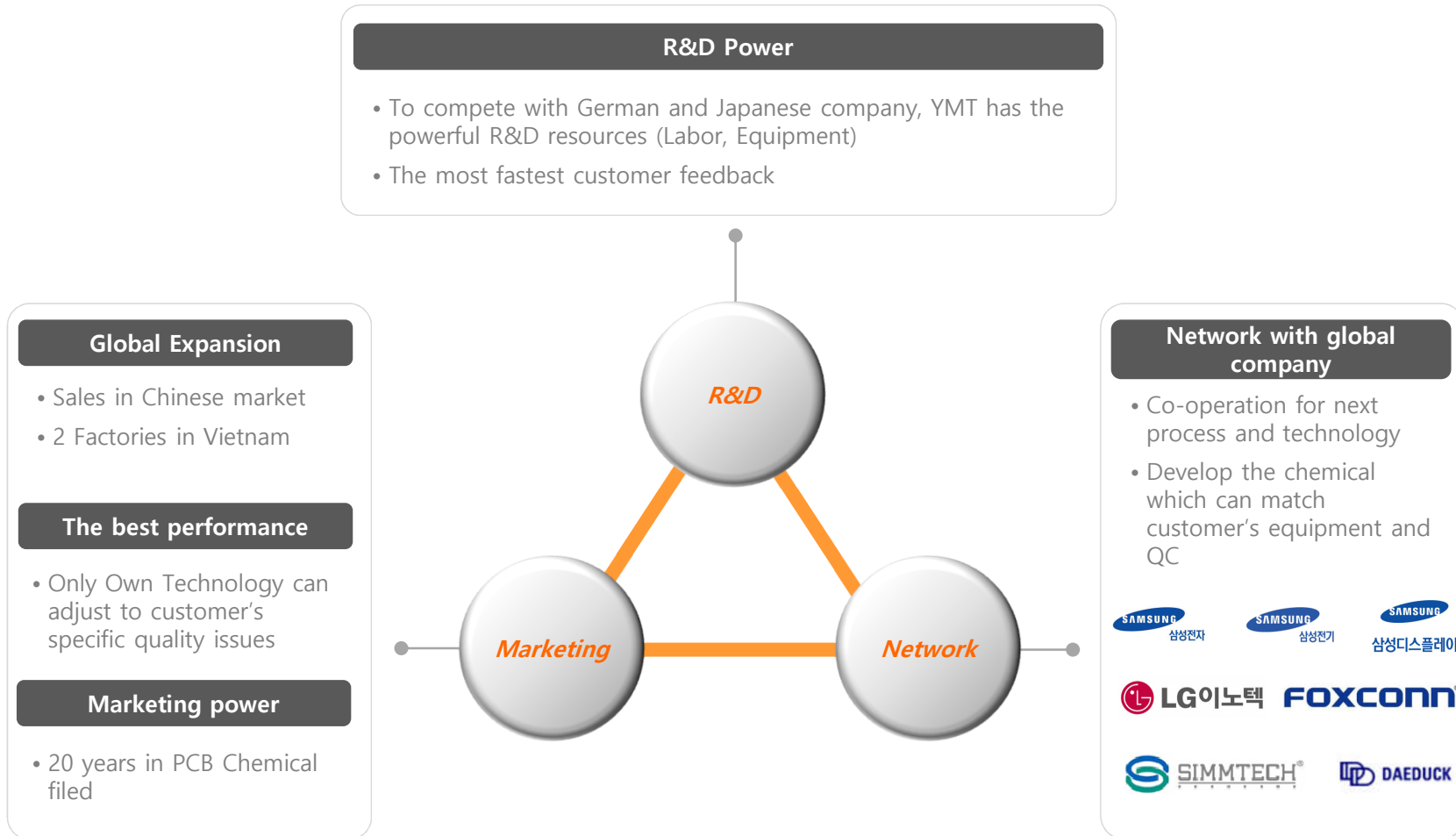
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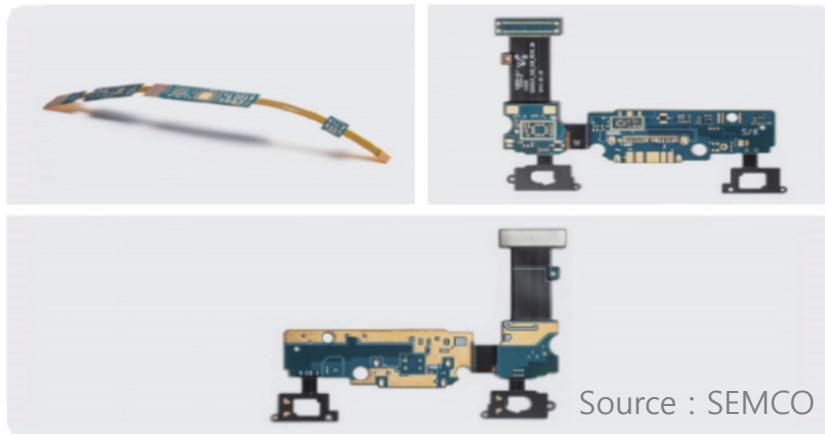
Strength

R&D / Global brand / Network for Major customer



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What is RF PCB



- PCB needs to be “**lighter, thinner, shorter, and smaller**” to follow the recent trends for slimness despite the increasing number of loaded parts.
- RF PCB is a hybrid of Rigid PCB and Flexible PCB which allows connection of circuits utilizing the bending of FPCB.
→ Provides advantage for mass data transmission and miniaturization
- Reduction in size of PCB allows application to devices such as smart phones with ultra-high specification, semiconductor, battery, and wearables.

From FPCB to RF-PCB

- Apple’s I-Phone X takes RF PCB to OLED module part instead of Double side FPCB. Because, OLED panel requires more data and transmission rate.
- And also, RF-PCB area is smaller than Double side FPCB, so that I-Phone X can take more modules and L shape battery.
- As a result, smartphone is getting smaller, thinner and more modules, RFPCB market is expanding.

High demand for YMT Chemical

- RF PCB requires ultra fine pitch for finish plating process. Our Soft ENIG process shows the best performance for fine-pitch i-Phone X RF PCB.
- Increasing demand for Copper plating chemical. Previous double side FPCB model did not take copper plating process. But RF-PCB requires Copper plating chemical because of inter connection by layer.
- Apple’s new materials for RFPCB require more sensitive process for specialty chemical.
- YMT’s high-end electroless copper plating materials presents superior quality than its competitors, and is applicable to iPhone’s OLED circuit board.

ENEPIG process expansion

- ENEPIG chemical mainly used for camera-module process. I-Phone X takes total 6 cameras. (Front 4, Back 2)
- From high-end smartphone, Chinese local and Mid-end smartphone takes more cameras, this will affect increasing of ENEPIG process.
- Also, ENEPIG has high value chemical so that this has an positive effect on YMT margin ratio.

Copper plating chemical M/S expansion

- In 2017, Copper plating chemical records almost 16 billion KRW for FPCB and RFPCB field. It is regarded impressive performance in the market because of conversion of brand power from gold plating company to chemical company.
- Currently, our M/S in FPCB & RFPCB is 15%~20%. But Copper plating chemical M/S in FPCB & RFPCB will be more that 30% within 2018 based on good records in 2017 for RFPCB area.

Entry for PKG copper plating chemical

- Last year, most of sales records in FPCB and RFPCB field.
- We started PKG copper plating chemical promotion in 2017.4Q and will start mass production in 2018.1Q.
- This is the first case to enter PKG market, so YMT will expand chemical area from FPCB to PKG filed.

YPT (Out sourcing plating)

- YPT is the best and the biggest out-sourcing plating company in Korea. (Job-shop , Camera module and RFPCB)
- In 2017 4Q, YPT set-up Via-fill equipment and records the first sales on Nov. We expect high-growth of YPT sales in 2018.
- Also, YPT will enter Vietnam market (Currently constructing the factory). There are no Job-shop in Vietnam, So we enter that market co-work with major customer.

Entry into Specialty Chemical Market for Semiconductor

Entry into Semiconductor Wet Chemical Market

- Completed workforce preparation for R&D and sales
- Completed development of post-process specialty chemicals such as UBM etchant and Cu etchant by original technology
- Expected to start mass production by 2Q 2018
- Revenue to increase in tandem with additional investment in 2018 as the market provides higher added-value than PCB market

PSR Etching Specialty Chemical

- Trends to lighter, thinner, shorter, and smaller substrate call for needs for new materials
- Needs for L-material by S-company's thin and unbendable products by PKG clients on rise
- YMT developed dedicated etching agent for L-material

Entry into Chemical Market using technology synergy

Expansion into New Fields based on Original Technology



- Successful realization of copper circuit on the plastic surface by using YMT's electroless copper plating technology
- Realization of circuit on the plastic part inside smartphones for antenna module reception
- Adopted Galaxy S8.



- Used to remove remnants on camera modules
- High value-added cleaner which requires detergency against special substances
- Domestic conglomerates and foreign players are currently competing in the market
- Revenue expected to expand starting 2Q 2018

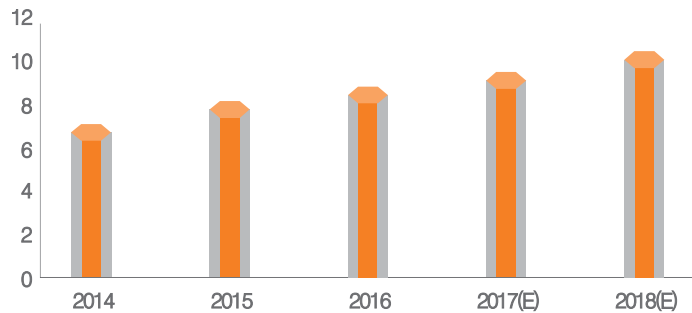


- Technological trends has shifted to remove moisture by built-in copper line within the windshield
- YMT developed darkening agent to prevent copper line to reflect lights, and is currently undergoing tests with conglomerates

Growth of Global Copper Foil Market

Global Electrolytic Copper Foil Market Value (Unit: KRW 1trn)

Reference : GosReports



- Continued growth of copper foil market driven by EV and high-end devices
- Demand for high-end copper foil materials to increase due to the shift of downstream industry such as wearables and foldable display
- High-end ultra-thin copper foil market is currently dominated by Japanese players with combined market share of 95%

Major Applications of Copper Foil



- YMT's copper foil to fit with trends for "lighter, thinner, shorter, and smaller"
 - Able to respond to demand for lighter EV and slimmer devices
- Excellent price competitiveness
 - Secure cost and quality advantage due to independently developed process
- Currently undergoing sample tests with major clients in Korea and abroad

YMT developed ultra copper foil by electroless method to avoid infringement against the patent owned by Japan's M-company, one of the industry leaders
Mass production is expected in 2Q 2018 for EMI shielding purposes, and forecasted to extend application to FCCL and SLP materials

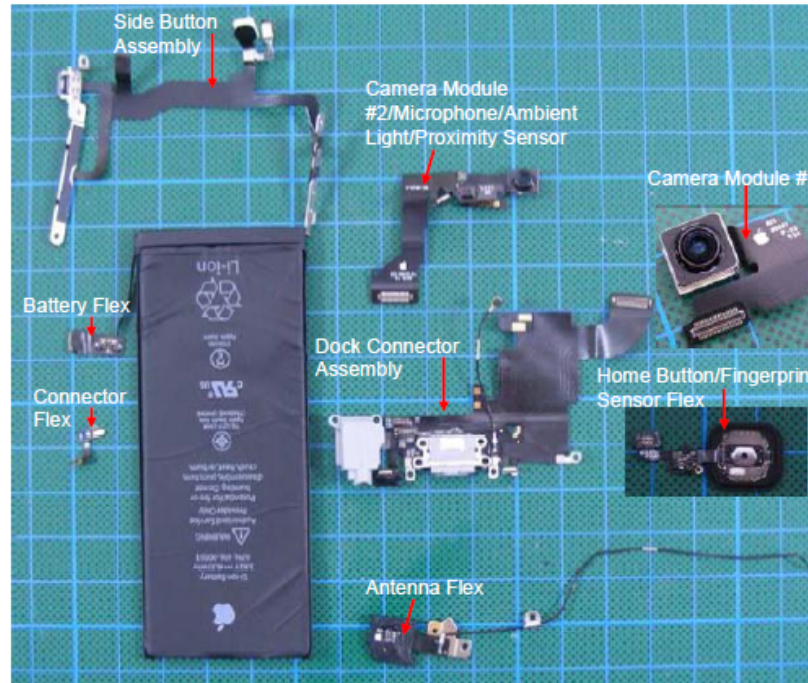
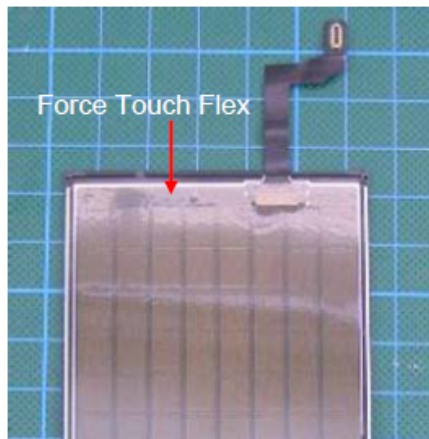
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I-Phone 6S Utilization of FPCB

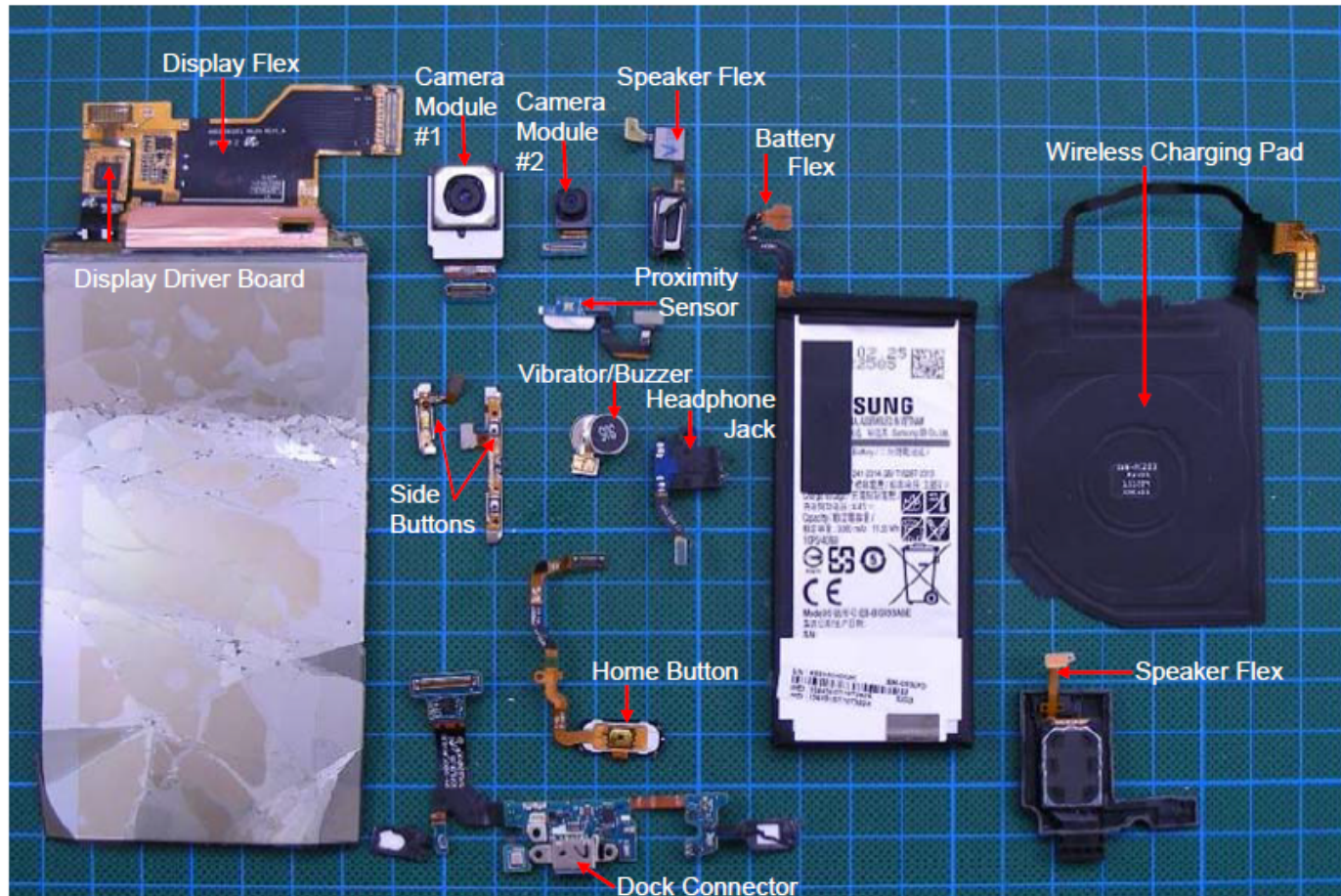


FPCB parts

- ✓ Camera Module#1
- ✓ Camera Module#2
- ✓ Speaker Flex
- ✓ Vibration / Buzzer
- ✓ Flex for home Button
- ✓ Contact Flex to Main PCB
- ✓ Side Button
- ✓ Dock Connector
- ✓ Headphone Jack
- ✓ Display Flex
- ✓ Display Driver Board
- ✓ Battery Flex

Source : Prismark 2017

Galaxy S7 Utilization of FPCB



FPCB parts

- ✓ Camera Module#1
- ✓ Camera Module#2
- ✓ Speaker Flex
- ✓ Proximity Sensor
- ✓ Vibration / Buzzer
- ✓ Flex for home Button
- ✓ Wireless Charging Pad
- ✓ Side Button
- ✓ Dock Connector
- ✓ Headphone Jack
- ✓ Display Flex
- ✓ Display Driver Board
- ✓ Battery Flex

Source : Prismark 2017

END OF DOCUMENT
