

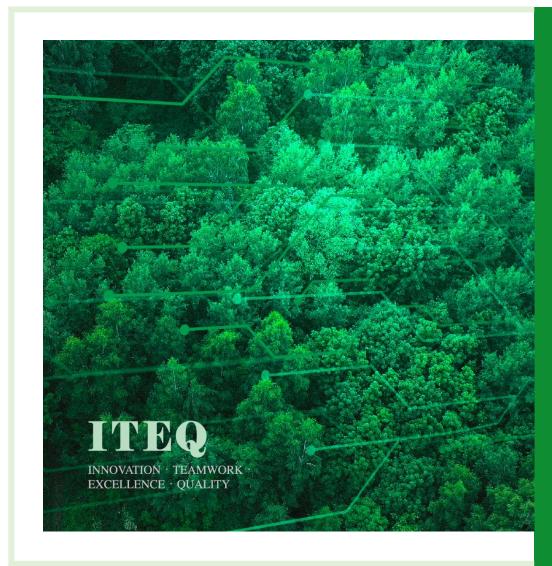
2023 Second Quarter Investor Presentation

ITEQ

INNOVATION. TEAMWORK. EXCELLENCE. QUALITY

Disclaimer Statement

- This presentation and release contain "forward-looking statements" which may include projections of future results of operations, financial condition or business prospects based on our own information and other sources.
- Our actual results of operations, financial condition or business prospects may differ from those expressed or implied in these forward-looking statements for a variety of reasons, including but not limited to market demand, price fluctuations, competition, international economic conditions, supply chain issues, exchange rate fluctuations and other risks and factors beyond our control.
- The forward-looking statements in this release reflect the current belief of ITEQ as of the date of this release. ITEQ undertakes no obligation to update these forward-looking statements for events or circumstances that occur subsequent to such date.





Company Overview



Establishment April 10th, 1997



Headquarters HsinChu, Taiwan



Capital NT\$3,630 million



Employees ~4,000



Chairman
Dennis Chen



CEO Audrey Tsai



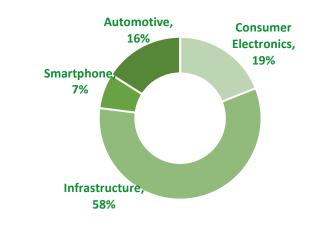
Main Products

Copper Clad Laminate (CCL) & Prepreg (PP) | Masslam service | Flexible CCL

Revenue (NT\$ billion)



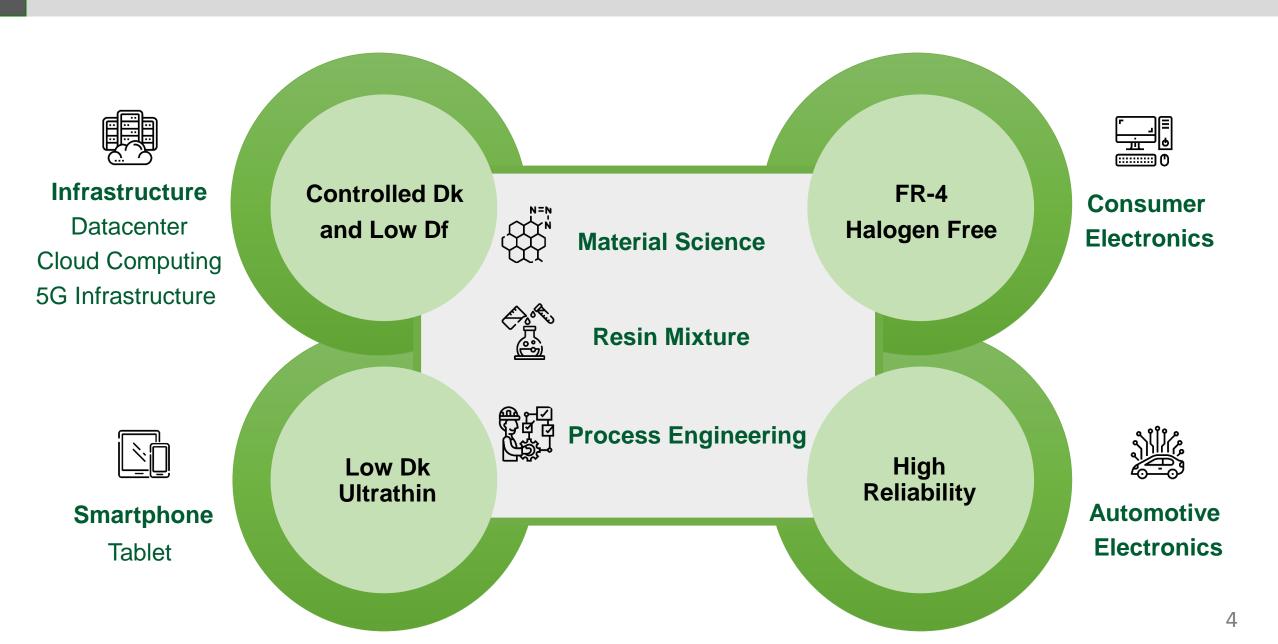
Revenue by Application (FY22)



3

Key Technology Applications







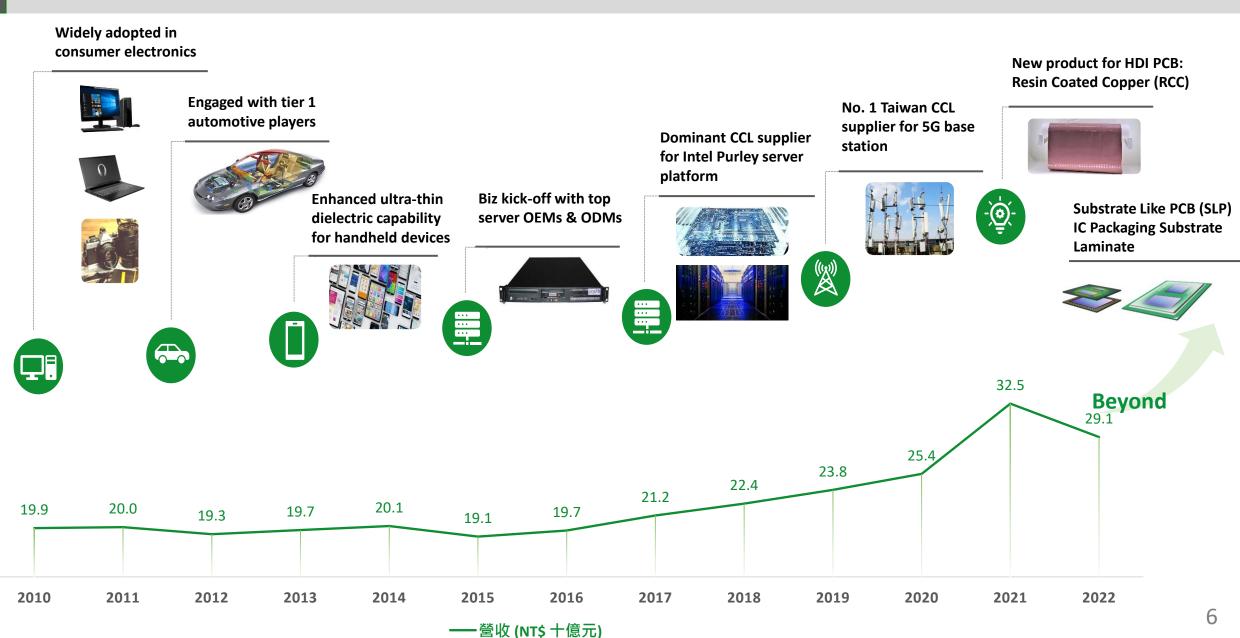
Growth Strategy Blueprint





Path of Innovation

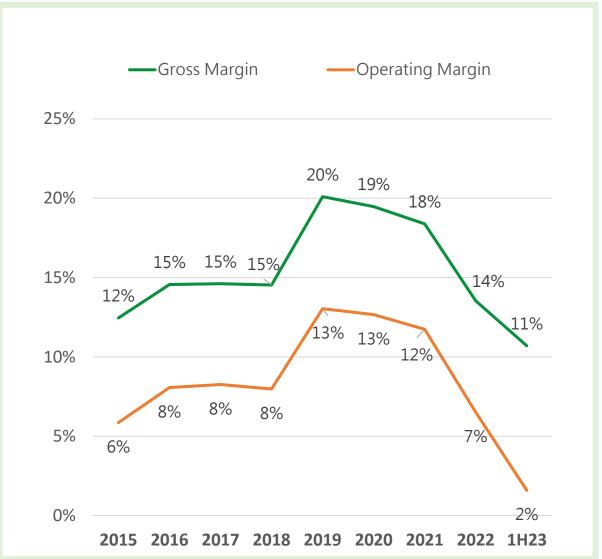




Optimized Mix with Product Innovation

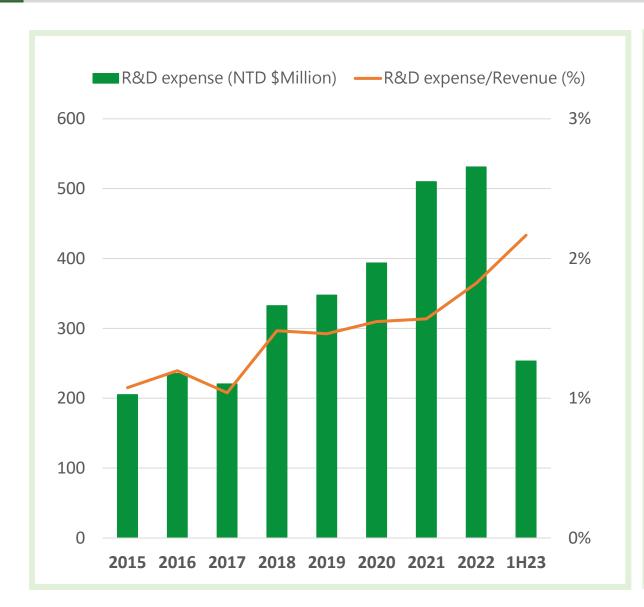


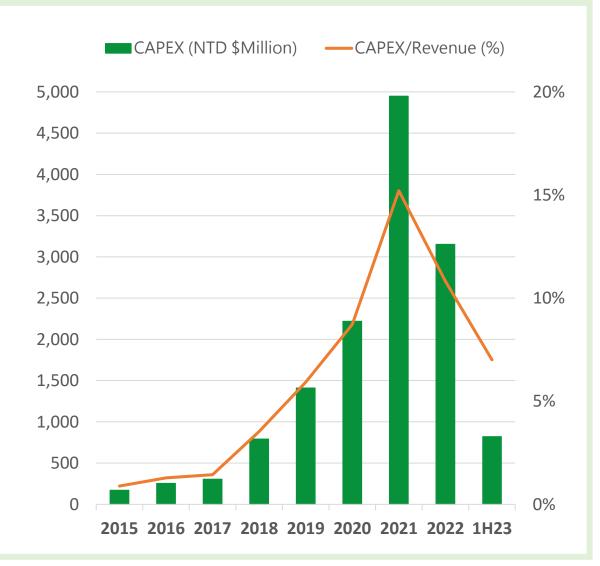




R&D and Capex to Pursuit Sustainable Growth ITEQ



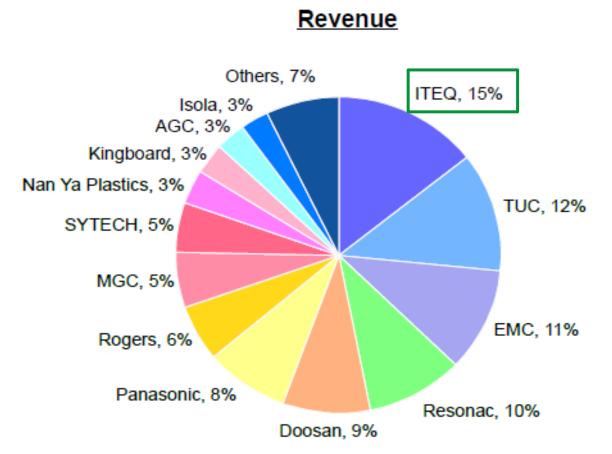




Market Share Leader in Specialty Laminate



2022 WW Specialty Laminate Market Share



Total: \$4.4Bn (\$USD)

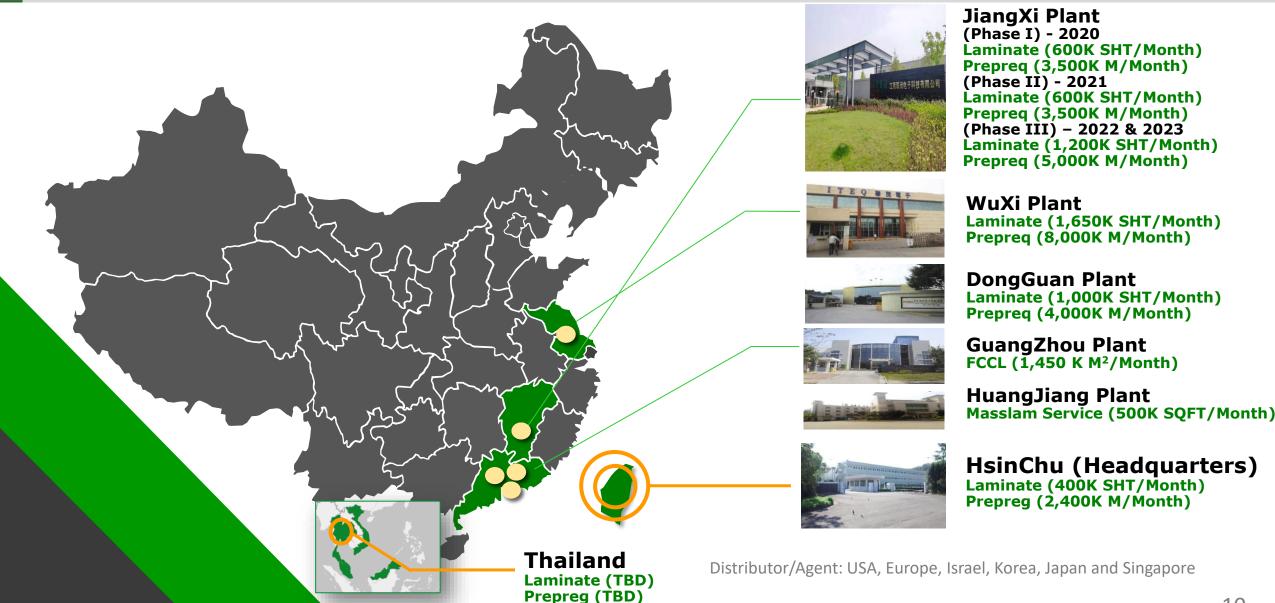
*Specialty Laminate includes: High speed, package substrate, RF Source: Prismark Report, 2023/06

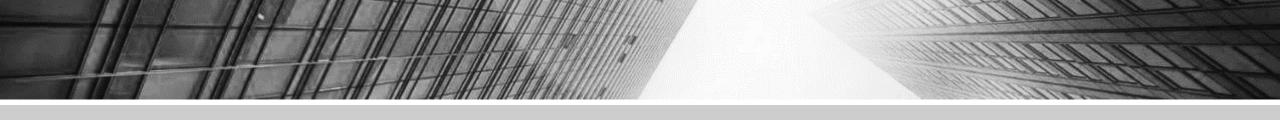
ITEQ: Leading CCL supplier

- Worldwide top supplier in high speed / frequency laminate
- Cutting-edge technology with MP track record
- Secular growth momentum in network infrastructure and data centers upgrading opportunities
- Rising EV market to boost demand for high speed / frequency automotive CCL



Manufacturing Site & Capacity – Expansion PlaniteQ





Market Trend & Growth Drivers

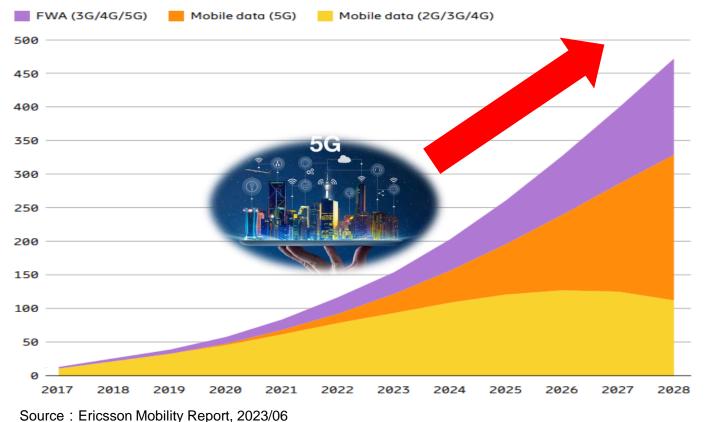




Hunger for High-Speed / Frequency Transmission



Global Mobile Network Data Traffic (EB per month)



The Expansion of Global Mobile Network Data Traffic Continues on the Rise

- Telecommunications equipment & datacenter
 - Base station, ground satellite transceiver station
 - Core (traditional / cloud datacenter)
 - Edge computing (Enterprise enhanced infrastructure, such as data center & internal/external servers, signal transmission stations, etc.)
- Al & High Performance Computing & Big Data Analysis
- Cloud Computing and Cloud Storage
- Internet of Vehicles (ADAS & Self-Driving)
- End user products (computers, smartphones, IoT devices)
- IoT related applications (Smart Home & Telemedicine)
- Virtual Reality (VR) and Augmented Reality (AR)
- In 2027, all mobile data traffic growth will come from 5G, as 4G traffic declines.
- The expansion of global mobile network data traffic has driven network service operators, telecommunications companies and IoT & IoV manufacturers to expand/upgrade product specs to meet the needs of low latency, high reliability and high-speed computing processing

Diversified High-Speed Materials for HPC/Datacenter ITEQ

High Speed Application

Loss Level	Halogen Free	Halogenated	Platform	Application	13
Mid-loss	IT-170GRA1		Intel Purley AMD Naples	- PCle 3.0	0.009
<u>Low-loss</u>	IT-958G IT-170GRA2	IT-150DA	Intel Whitley AMD Rome / Milan	- PCle 4.0 - 40G Ethernet - 10~20Gbps	0.007
Ultra Low-loss 1 Very Low-loss	IT-988G IT-968G	IT-968	Intel EGS / BHS AMD Genoa / Turin	PCIe 5.0100G Ethernet25~32Gbps	0.004 0.005 0.006
Ultra Low-loss 2 (with Low Dk glass)	IT-988GSE IT-968GSE	IT-968SE	Intel EGS / BHS AMD Genoa / Turin	- PCIe 5.0 - 200G Ethernet - 400G Ethernet - 56Gbps	0.003
Super Ultra Low-loss	IT-999G IT-998G	IT-998 / IT-998SE	Next IT-998SE: Low-Dk glass IT-998: Low-Dk 2 glass	- 800G Ethernet - 112Gbps	0.001

Al Server Robust Demand to Drive CCL Content Growth





(Used in both general type server and Al

CPU MB



CCL: Very Low Loss Layer Count: 14 to 24

AI Server GPU OAM*8

(Content Value – highest)

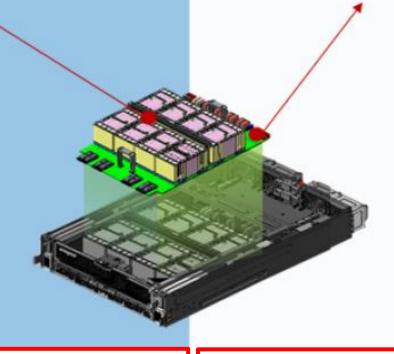
(Used in accelerator card— Al server only)

GPU Tray

Al Server GPU UBB

(Content Value - high)

(Used as GPU board— Al server only)



CCL: Ultra Low Loss

Layer count: 20 to 30 (HDI)

CCL: ULL / VLL

Layer count: 20 to 30 (incl. HDI)

Datacenter Server Platform Upgrade



	Platform	Purley		Whitley	Eagle Stream		Birch Stream
	CPU	Skylake	Cascade Lake	Ice lake	Sapphire Rapids	Emerald Rapids	Granite Rapids
	Nano Process	14 nm	14 nm+	10 nm	Intel 7	Intel 7	Intel 3
Intel	PCle Gen	PCle 3.0	PCle 3.0	PCIe 4.0	PCIe 5.0	PCle 5.0	PCle 5.0
	MP Time	2017 Q3	2019 Q3	2021 Q1	2023 H1	2023 H2	2024
	CCL Material	Mid Loss	Mid Loss	Low Loss	Very Low Loss	Very Low Loss	TBD
	Layer count	8 to 12	8 to 12	12 to 16	16 to 20	16 to 20	TBD





	Architecture	Zen	Zen2	Zen3	Zer	n4	Zen5
	CPU	Naples	Rome	Milan	Genoa	Bergamo	Turin
	Nano Process	14 nm (Global Foundries)	7 nm (TSMC)	7 nm (TSMC)	5 nm (TSMC)	5 nm (TSMC)	4 nm / 3 nm (TSMC)
AMD	PCle Gen	PCle 3.0	PCle 4.0	PCIe 4.0	PCle 5.0	PCle 5.0	PCle 5.0
	MP Time	2017 Q3	2019 Q3	2020 Q4	2022 Q4	2023	2024
	CCL Material	Mid Loss	Low Loss	Low Loss	Very Low Loss	Very Low Loss	TBD
	Layer count	8 to 12	12 to 16	12 to 16	16 to 20	16 to 20	TBD

Datacenter Equipment Cyclical Upgrade to Drive the Following;

- Corresponding CCL material upgrade
- Increase consumption and layer counts for CCL

Advanced Auto Application Opportunities



Green Power/EV



- Energy Conservation
- Power Charging
- High Current & Voltage
- Heavy Cu

High Tg material

Internet of Vehicle

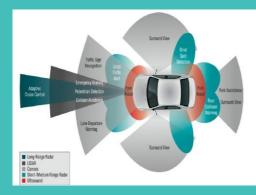


- Infotainment
- Networking

HDI

High Speed Material

Active Safety

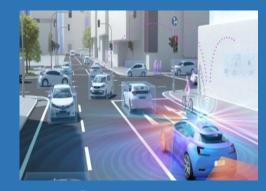


- Active Safety System
- ADAS
- Radar
- Antenna Module

High Speed Material

High Frequency Material

Autonomous Driving



- HPC
- Graphic Processing
- Automated Driving Control Module

HDI

High Speed Material

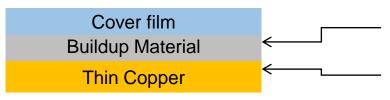
- EV, IoV and Active Safety to boost demand for high performance automotive CCL
- PCB usage for EV is 4 to 5 folds of conventional gasoline vehicle

HDI New Product: Resin Coated Copper (RCC)



Resin Coated Copper (RCC)

✓ Glass-free solution which enables further thickness reduction of dielectric layer while satisfies the needs towards fine-line pattern design (smaller form factor) and hybrid HDI/Substrate-Like PCB production.



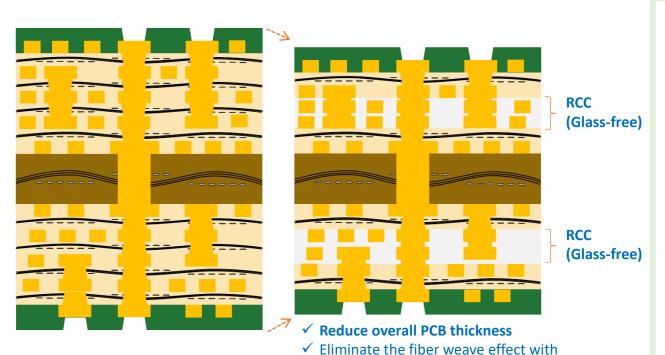
Dielectric Layer: 10~50um

X Available for thickness up to 150um

Conductors: Copper Foil

enhanced reliability of signal transmission





ITEQ RCC Advantages

Glass-Free

Reduce thickness of the dielectric layer and overcome minimum thickness constraints (15-20um)

Better Dielectric Constant (Dk) and Impedance Control

RCC uses pure glue material enabling stable dielectric constant

Power Consumption Saving

Lower voltage – extending battery life

Better Laser Processability

RCC is a glass fiber free material, which is easier to form holes through laser drilling with more stable Via quality

Simplify PCB Lamination process

Combine the processes of PP/Copper foil stack-up into one







2Q23 Income Statement

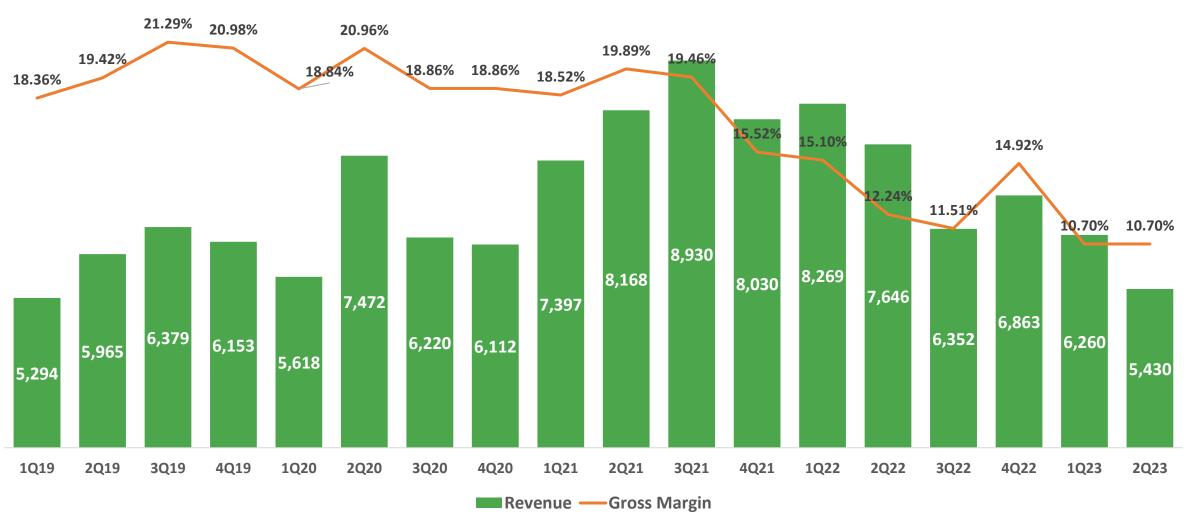


NTD \$Million	2Q23	1Q23	2Q22	QoQ	YoY
Revenue	5,430	6,260	7,646	-13.3%	-29.0%
Gross Profit	581	670	936	-13.3%	-37.9%
Operating Expense	523	542	486	-3.5%	-7.6%
Operating Profit	58	128	450	-54.7%	-87.1%
Non-Op Income / Loss	23	6	146		
Income before Tax	81	134	596	-39.6%	-86.4%
Tax Expense	40	60	161		
Net Income to Parent	42	74	435	-43.2%	-90.3%
EPS(NT\$)	0.11	0.20	1.14	-45.0%	-90.4%
Key Financial Ratio					
Gross Margin	10.70%	10.70%	12.24%		
Operating Expense Ratio	9.63%	8.66%	6.36%		
Operating Margin	1.07%	2.04%	5.89%		
Effective Tax Rate	49.38%	44.78%	27.01%		
Net Margin	0.77%	1.18%	5.69%		

Revenue & Gross Margin Rate

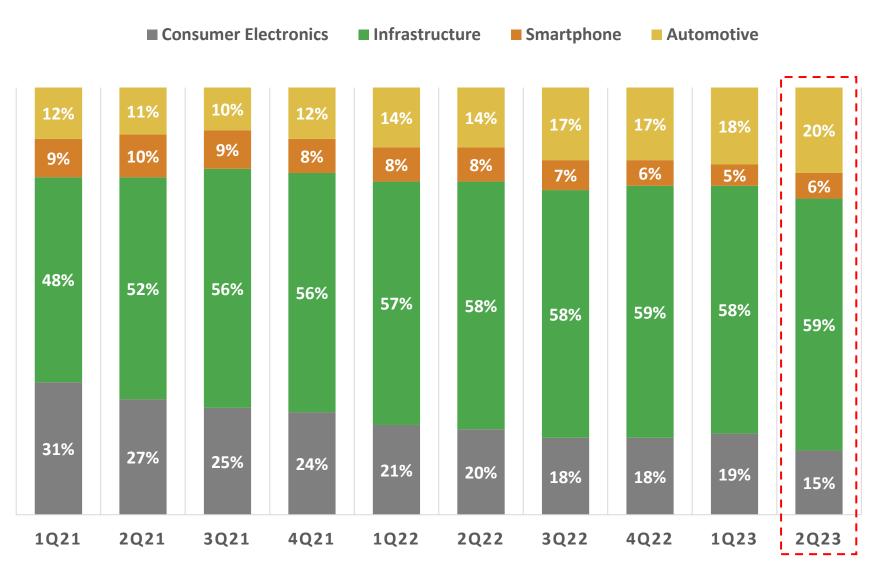


(Million \$NTD)



Product Mix





2Q23 Product Growth %	QoQ	YoY	
Automotive	-3.6%	+1.5%	
Smartphone	+4.1%	-46.7%	
Infrastructure	-11.8%	-27.8%	
Consumer Electronics	-31.5%	-46.7%	

2Q23 Balance Sheet



	F		
NTD \$Million	2Q23	1Q23	2Q22
Total Assets	30,905	33,554	34,043
Cash	4,692	5,681	3,873
NR / AR	10,365	11,692	13,799
Inventories	2,422	2,556	3,872
Fixed Assets	11,049	11,307	10,276
Total Liabilities	12,189	14,354	13,092
Short-term Debt	1,544	2,553	2,051
NP / AP	4,590	5,755	5,686
Long-term Debt	2,559	2,498	-
Total Equity	18,716	19,200	20,951
Key Financial Index			
Days Sales Outstanding	165	160	151
Days Sales of Inventory	49	46	64
Days Payable Outstanding	88	90	84
ROE (%)	3.74	5.70	13.60
ROA (%)	2.55	3.62	8.42
Debt ratio (%)	39.44	42.78	38.46

2016 – 2022 Dividend Policy



Year	EPS(NT\$)	Dividend(NT\$)	Cash Dividend(NT\$)	Pay-out Ratio(%)
2016	3.13	2.5	2.5	80%
2017	4.11	3.1	3.1	75 %
2018	5.86	3.8	3.8	65%
2019	8.13	5.0	5.0	62%
2020	8.19	5.0	5.0	61%
2021	9.00	5.0	5.0	56%
2022	4.94	3.0	3.0	61%

^{*}New shares issuance of 30 million common shares concluded on March 31st 2020

^{**}New shares issuance of 50 million common shares concluded on September 2nd 2021

^{***}Factoring in the repurchase and cancellation of 20 million shares in 3Q22; current total outstanding common share: 363 million





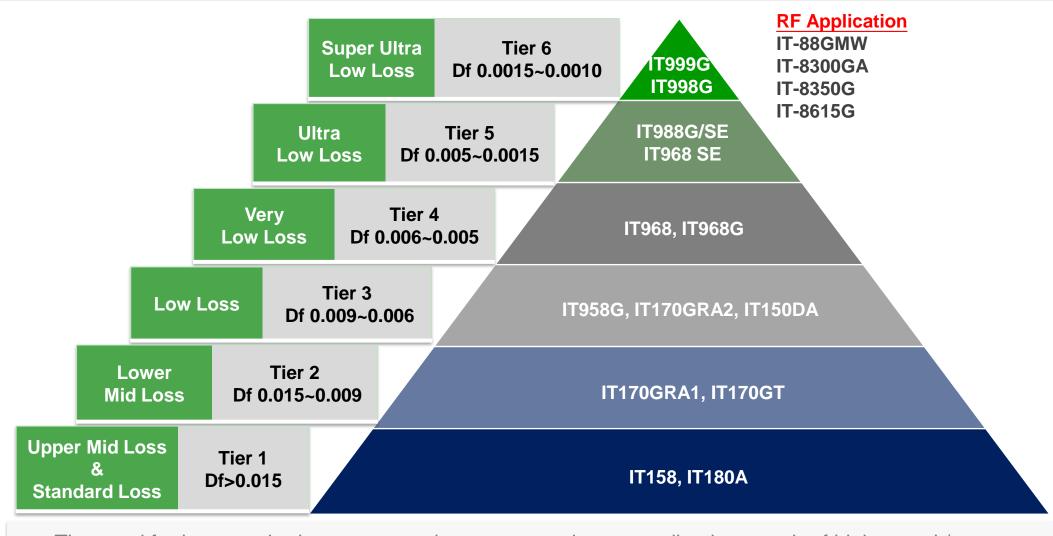
Appendix





Well-Expanded Product Line

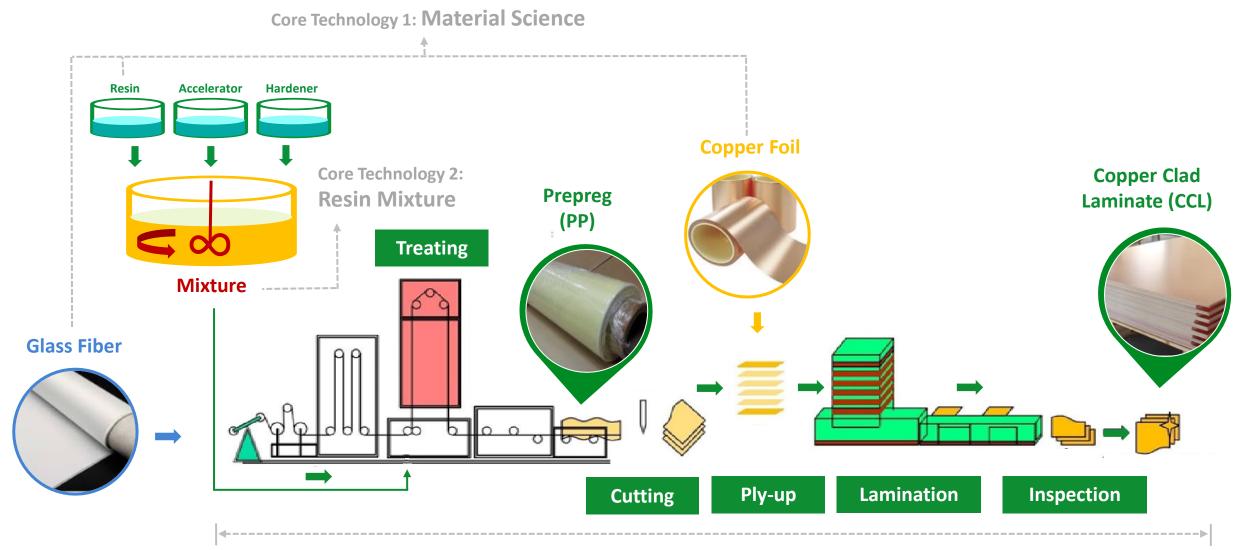




- The need for hyperscale data center and server upgrade to expedite the growth of high speed / frequency material demand
- ITEQ's market share in high speed / frequency material to uplift robustly

CCL & PP Manufacturing Flow





CCL & PP Composite Structure



