

Presentation Disclaimer

The information herein contains forward-looking statements. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that these expectations and projections are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us, including, among other things: the intensely competitive Semi-conductor, and LED industries and markets; Cyclical nature of the semiconductor industry; Risks associated with global business activities; General economic and political conditions. All financial figures discussed herein are prepared pursuant to IFRS. All audited figures will be publicly announced upon the completion of our audited process.





MPI-The Powerhouse of Testing Solutions



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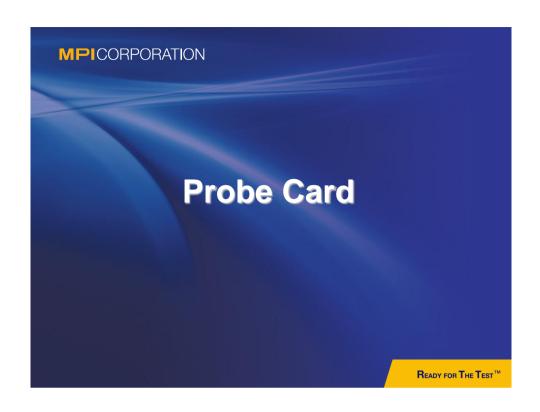
Agenda

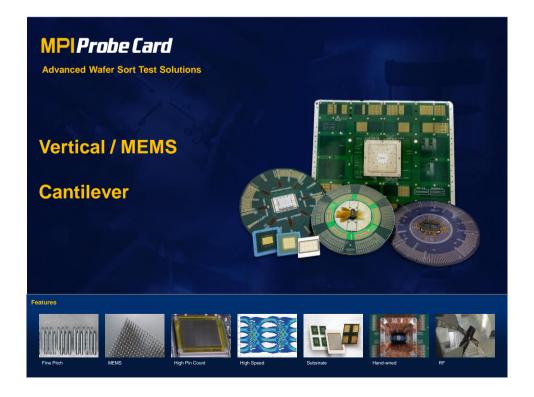


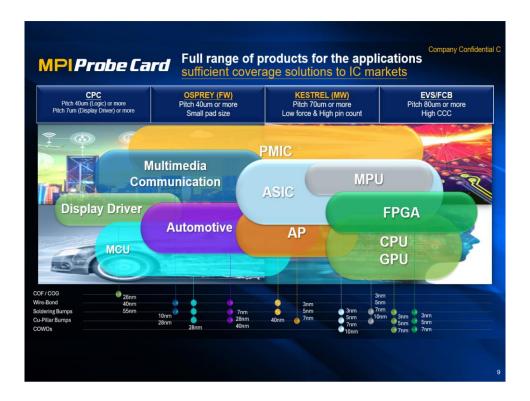
Business Contents

Probe Card
Photonics Automation
Thermal & AST

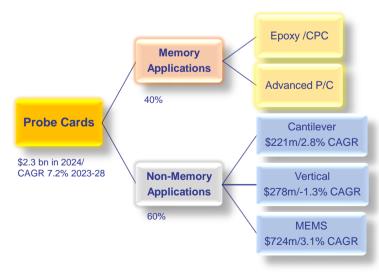






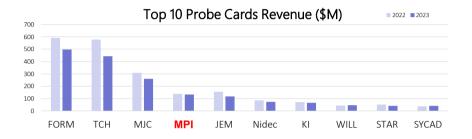


Global Probe Card Market Update



Total Own Make IC Probe Cards Venders

(Rank)		2020	2021	2022	2023
FormFactor	USA	1	1	1	1
Technoprobe	Italy	2	2	2	2
Micronics Japan	Japan	3	3	3	3
MPI Corporation	Taiwan	5	5	5	4
Japan Electronic Materials	Japan	4	4	4	5



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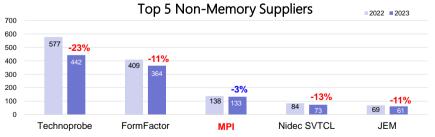
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Source: TechInsights

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Top 5 Non-Memory Probe Card Vendors

(Rank)		2018	2019	2020	2021	2022	2023
Technoprobe	Italy	2	2	2	1	1	1
FormFactor, Inc.	USA	1	1	1	2	2	2
MPI Corporation	Taiwan	3	3	3	3	3	3
Japan Electronic Materials	Japan	4	5	5	4	5	5
Nidec SVTCL	Singapore	5	4	4	5	4	4



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urce: TechInsights

Probe Card: Total Solution Provider

Comprehensive Product Range for Circuit Testing

全方位的產品布局

MPI provides omnidirectional products to global customers, including fine pitch CPC, high speed VPC and low force MEMS solutions.

● Solid Global Clientele 堅實的國際合作夥伴

MPI works closely with worldwide market leaders, especially for the AI, HPC application related.

● Complete Probe Card Solution 完整的探針卡整合方案

Provide <u>probe head</u>, <u>substrate</u>(MLO/MLC/MLOC) and <u>PCB</u> one-stop service.

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Fast Growing Applications



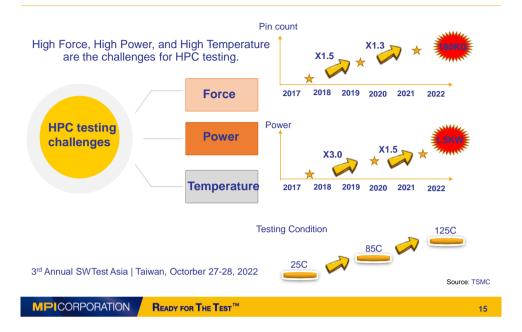
Source: TSMC

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Company Confidential B

HPC Challenges



Interface Technical Complexity Check in

Complexity Trends are on pace to be at 2022 targets(1 Cycle) or in some cases beyond

"2x4 Scaling"=2xPins, 2xPerformance, every 4 years



		2018	2022	2026	
		Level 4	Level 5	Level 6	
	Pin Pitch	90um	70um	50um	
Pin Density	Total Contact Force	80kg	150kg	250kg	
I/O Chand	Digital	32Gpbs	64Gpbs	128Gpbs	
I/O Speed	RF/mmWave	< 12 GHz	29 GHz	+60 GHz	
	Main Power	900 mV	750mV	625mV	
Device	Single Rail	35A	50A	100A	
Power	Impedance	2.2 mOhm	1.4 mOhm	0.8 mOhm	
	Self Heating	75 W			
Thermal	Operating Range	0 to +80C	0 to +105C	-20 to +125C	
	t Expensive robe Card	\$400K*	>\$500K	>\$700K	

Source:Teradyne

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CPC Pin-Shipment & BB ratio

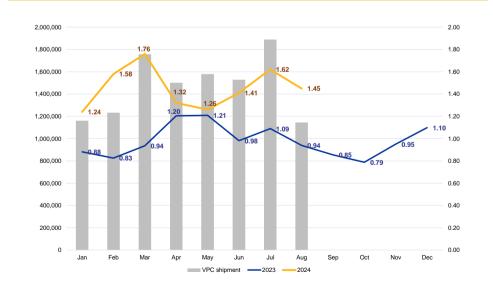


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VPC Pin-Shipment & BB ratio



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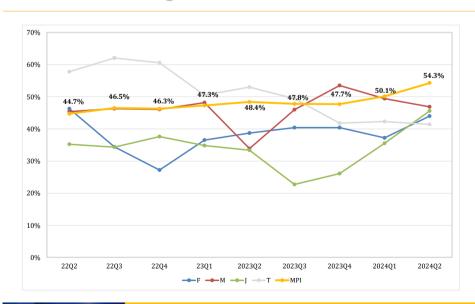
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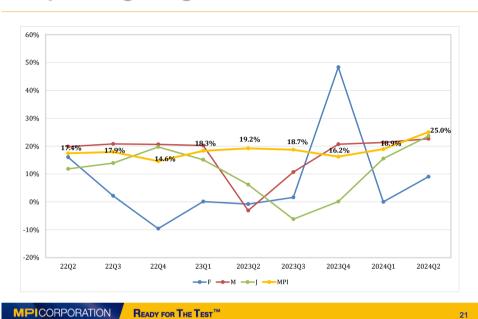
CPC and VPC Yearly Status



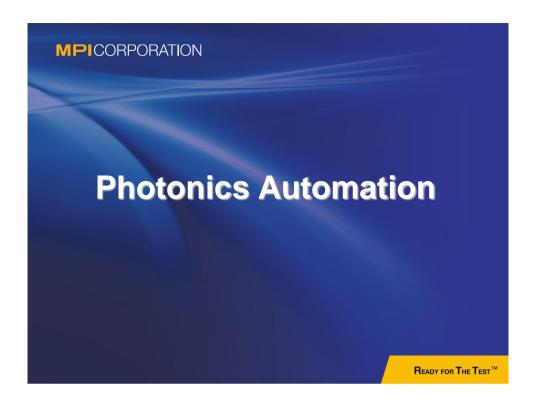
Gross Margin Between Global Peers



Operating Margin Between Global Peers







Product Portfolio and Capability



- High Power VCSEL Wafer Testing Wafer / Board Prober Development Testing methodology Development
- High Power VCSEL PKG Testing PKG Handler Development Testing methodology Development
- VCSEL/ Photo-Detector Testing Wafer/ Board Prober Development Testing methodology Development
- Wafer Level RF Testing Integration
- SiPh Die/PKG Platform SiPh Handler Development
- > uLED Mass Production Methodology
 Wafer prober for large quantity die testing method
- > Panel testing platform development
 Panel / Panel in-process testing platform

Development Plan by Application







	Optical Sensing		Optical Communications		Micro Display
>	Focus on Sensing VCSEL Testing	>	Focus on VCSEL/Photodetector	>	Lab and production wafer testing
>	Production Wafer Prober in Low		Testing		tool development
	Temperature	>	Wafer Prober for Dark /	>	Contacting Accuracy
>	High Power Measurement Tool		Responsivity / Capacity		Improvement
	and Technology Development		measurement	>	Innovative testing methodology
>	Flip Chip Wafer VCSEL testing	>	RF Measurement Capability	>	Optical measurement in
	Solution		Development		production methodology
>	Package / Hybrid Device testing	>	SiPh package testing approaching		
	tool				

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PA: Work With Market Leaders

● Value Enhanced Product Lines 客戶價值導向的產品線規劃

MPI's experienced RD team comes across <u>lighting</u> and <u>electrical</u> fields with <u>automation</u> core technology that enables us to develop leading market solutions ie VCSEL & Micro LED.

● Solid Global Clientele 穩固的全球客戶群

MPI works closely with market leaders and international brand names for most advanced testing solutions.

● Continuous Product Innovation 持續的產品創新

Non stop RD investments helps MPI to provide high value added products that tackles clients' testing bottleneck.





Thermal: Customer Focus

- Innovational Temperature System 創新的溫度測試系統 Ongoing R&D investments in platforms and improvements leads MPI to meet customer demands. Thermal systems have a number of patents to provide efficient energy saving products that helps clients to fulfill ESG responsibility.
- Top Skillful RD Team 頂尖優秀專業的研發團隊

MPI's thermal solutions are developed by industry veterans with over 100 years of combined experience.

 Deep Cooperation with Leading Customers for Engineering and Production demand

與世界領導級大廠深度合作,提供工程及量產需求

Product application expands to automotive, 5G/RF communication, fiber optic, and sensing fields.

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AST: Unique Market Leader

- Unique Global Position 全球獨特的市場地位
 Combining Analytical probing solution and RF measurement core
 technology MPL is top solution provider for full range hi-frequency
- technology, MPI is top solution provider for full range hi-frequency response measurement.
- VOC Design 客戶導向設計

Design based on Voice of the customer to full-fill customers' needs.

● Complete Solution 提供完整的解決方案

Various series of products to cover wide range applications include Device Modeling, RF & mmW, WLR, High-Power, Failure Analysis, Extreme temperature test ...etc.

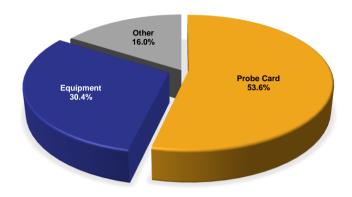
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2024 1H Revenue Breakdown



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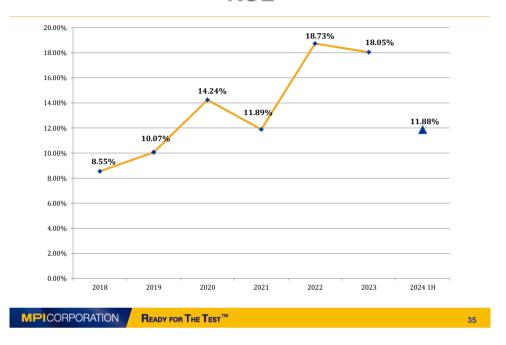
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Solid Performance



ROE



Balance Sheet Highlight

NT\$ Million	1H 20	24	1H 2023		
Cash and Cash Equivalents	2,673	20%	1,993	17%	
Fixed Assets	5,913	43%	5,396	46%	
Total Assets	13,697	100%	11,765	100%	
LT Debt	1,403	10%	953	8%	
Shareholders' Equity	8,196	60%	6,924	59%	
EBITDA	1,166	26%	739	19%	

^{*}EBITDA=operating income + depreciation & amortization expenses

P&L

NT\$000	1H 2024		1H 2023			
Net Sales	4,439,686	100%	3,796,614	100%		
Cost of Goods Sold	2,113,749	48%	1,973,971	52%		
Gross Profit	2,325,937	52%	1,822,643	48%		
Operating Expense	1,341,566	30%	1,106,169	29%		
Operating Income	984,371	22%	716,474	19%		
Investment Income & Others	182,244		22,557			
Net Income (after tax)	935,601	21%	622,676	16%		
EPS (after tax)	9.94		6.62			
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