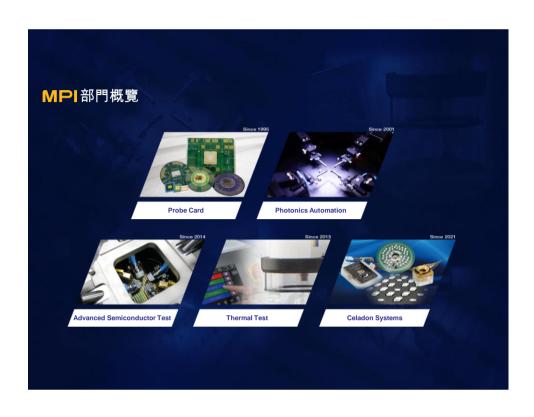


免責聲明

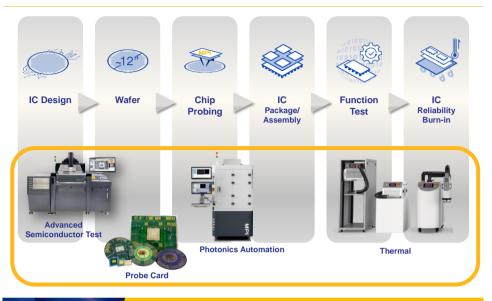
以下資訊包含前瞻性陳述,我們基於目前對未來事件的預期和預測做出了這些前瞻性陳述。儘管我們相信這些預期和預測是合理的,但這些前瞻性陳述本質上會受到以下風險和不確定性影響,包括但不限於: 半導體和LED產業與市場的激烈競爭、半導體行業的週期性特性、全球業務活動所涉及的風險、整體經濟和政治環境。

此處討論的所有財務數字均根據國際財務報告準則(IFRS)編制·所有數字將在會計審計過程完成後公布。





MPI-The Powerhouse of Testing Solutions



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議程

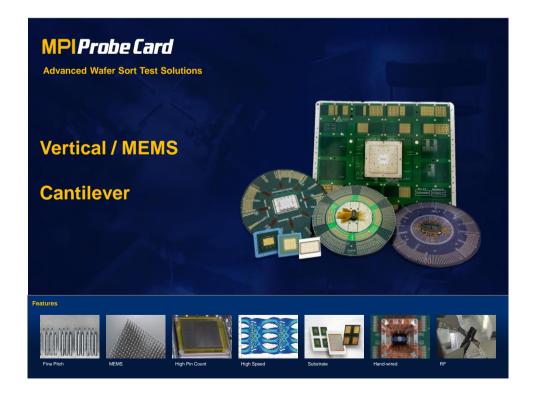


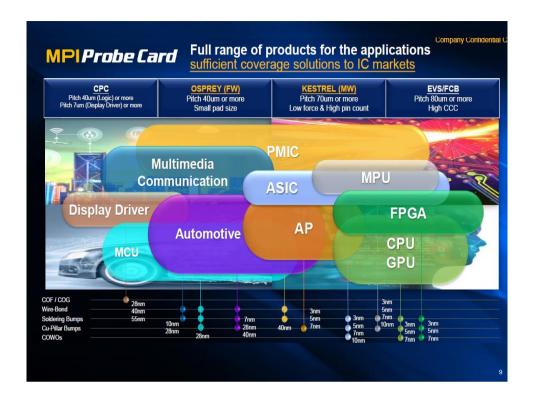
Business Contents

Probe Card
Photonics Automation
Thermal & AST

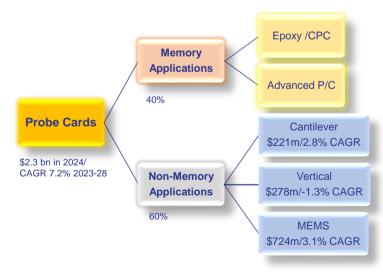






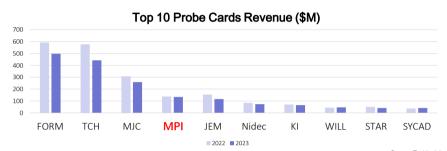


全球探針卡市場



自製IC探針卡供應商

(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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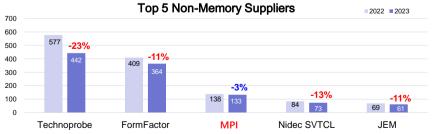
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Source: TechInsights

11

前五大非記憶體探針卡供應商

(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



Source: TechInsid

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Probe Card: 提供全方位解決方案

• Comprehensive Product Range for Circuit Testing

全方位的產品布局

MPI provides omnidirectional products to global customers, including <u>fine pitch CPC</u>, <u>high speed VPC</u> and <u>low force MEMS</u> 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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快速增長的應用層面

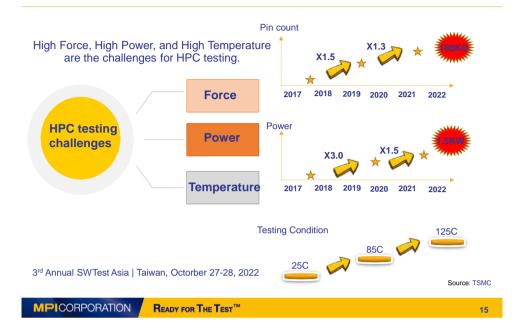


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Company Confidential B

HPC挑戰



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 Speed	Digital	32Gpbs	64Gpbs	128Gpbs
	I/O Speed	RF/mmWave	< 12 GHz	29 GHz	+60 GHz
d		Main Power	900 mV	750mV	625mV
	Device Power	Single Rail	35A	50A	100A
	Fowei	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月出貨針數及月接單出貨比



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17

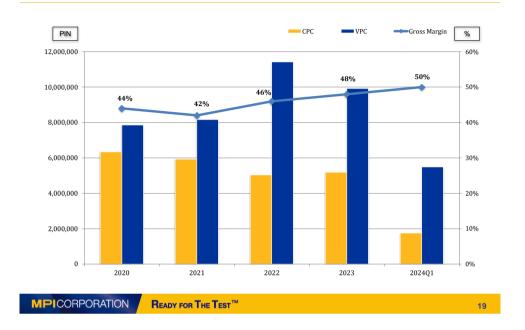
VPC月出貨針數及月接單出貨比



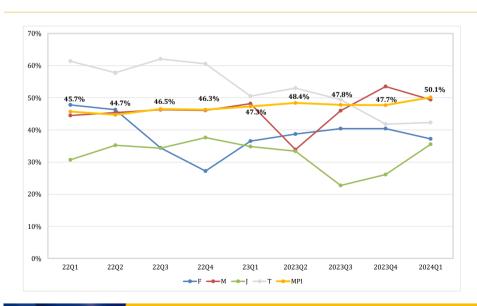
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CPC及VPC成長趨勢



全球同業毛利率



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全球同業營利率



MPI Probe Card **Our Customer** UMC SAMSUNG intel GlobalFoundries No. Coupressed N. C. STEXAS INSTRUMENTS ELECTRONICS FARADAY GUC REALTEK ONSEMI.

REALTEK ONSEMI.

STATES

AMD

MEDIATEK

AMD

MARVELL

MARVELL

Western Digital

ForgalTech

ForgalTech

MEDIATEK

AMD

MICROCHIP

SYNAPTEK

SONY

SONY REALTEK ONSEMI SONY FocalTech

数泰電子

SEAGATE CHIPONE PHISON SENSIRION

SENSIRION ○mkor JCET 品名を件板 EXTEC ChipMOS 南茂科技 Ardentec Triskt Corporad * CHIPBOXD



產品概覽



- 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
- ➤ RF Character
 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

發展計畫







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

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PA:與市場領導者合作

● 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: 客戶導向

- 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:獨特的市場領導者

● Unique Global Position 全球獨特的市場地位

Combining Analytical probing solution and RF measurement core 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

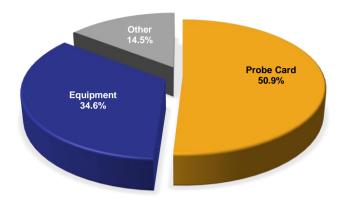
Various series of products to cover wide range applications include Device Modeling, RF & mmW, WLR, High-Power, Failure Analysis, Extreme temperature test ...etc.

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2024 Q1出貨分布

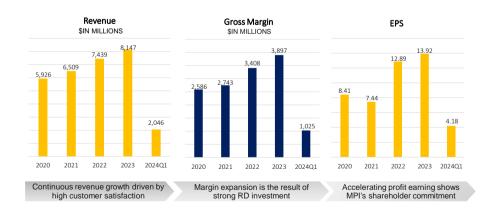


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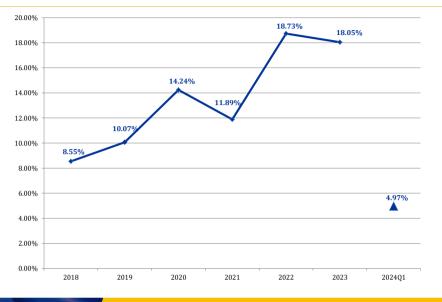
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22

營業表現



股東權益報酬率



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資產負債表

NT\$ Million	1Q 2024		1Q 2023	
Cash and Cash Equivalents	2,546	20%	2,385	22%
Fixed Assets	5,669	45%	4,481	41%
Total Assets	12,565	100%	10,952	100%
LT Debt	1,453	12%	996	9%
Shareholders' Equity	8,206	65%	7,204	66%
EBITDA	482	23%	336	19%

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

綜合損益表

NT\$Million	1Q 2024		1Q 2023		
Net Sales	2,046,692	100%	1,778,781	100%	
Cost of Goods Sold	1,020,800	50%	933,761	52%	
Gross Profit	1,025,892	50%	845,020	48%	
Operating Expense	639,117	32%	515,364	29%	
Operating Income	386,775	18%	329,656	19%	
Investment Income & Others	95,592		6,697		
Net Income (after tax)	392,927	19%	279,721	16%	
EPS (after tax)	4.18		2.98		
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