

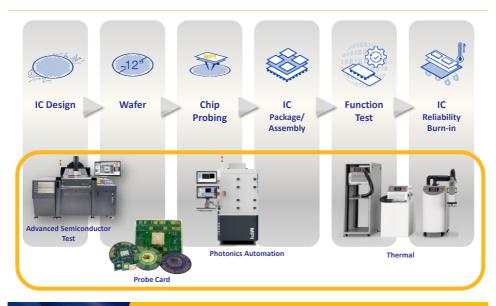
免責聲明

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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5

5

議程



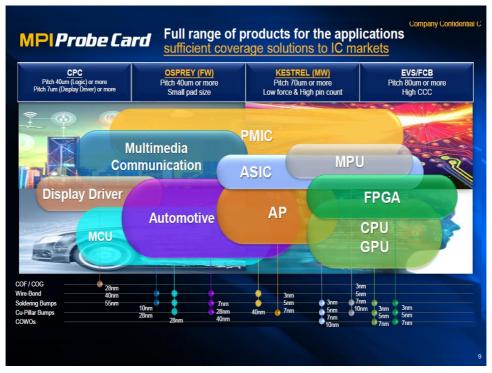
Business Contents

Probe Card
Photonics Automation
Thermal & AST

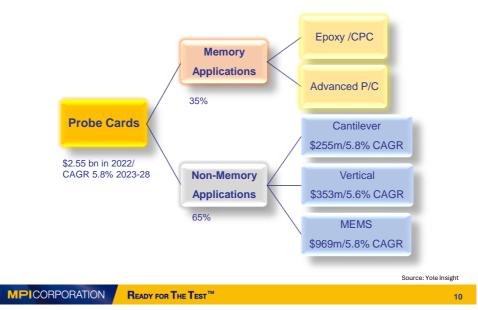








Global Probe Card Market Update



前五大非記憶體探針卡供應商



2022 ■ 2021

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11

11

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</u> pitch CPC, high speed VPC and high pin count 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 probe head, substrate(MLO/MLC/MLOC) and PCB one-stop service.

HPC 需求

The demand of HPC (High Performance Computing) growth rapidly.



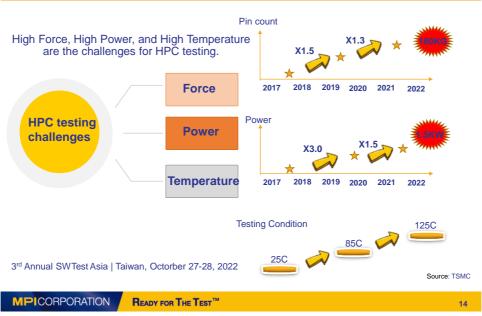
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13

13

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

Source:Teradyne

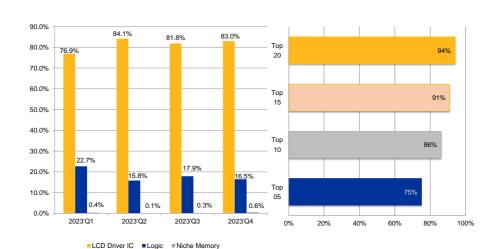
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15

15

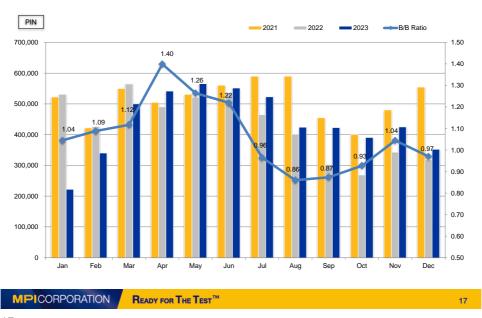
出貨產品結構及主要客戶



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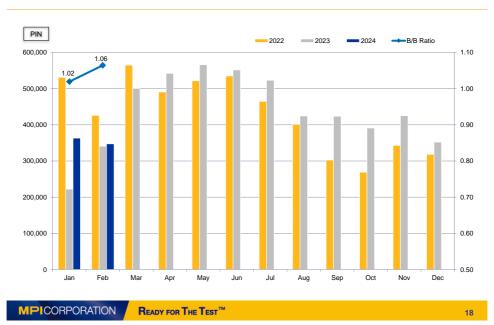
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CPC月出貨針數及月接單出貨比_2023



17

CPC月出貨針數及月接單出貨比_2024

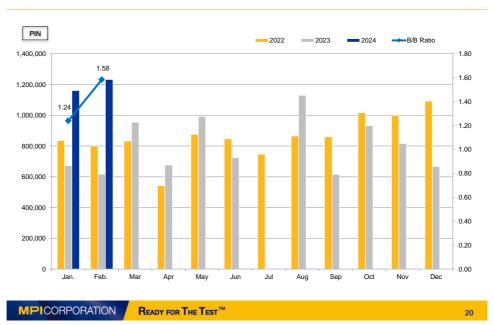


VPC月出貨針數及月接單出貨比_2023

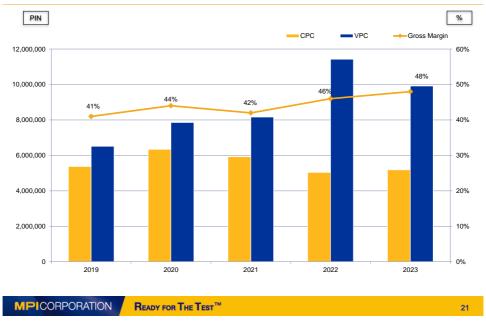


19

VPC月出貨針數及月接單出貨比_2024

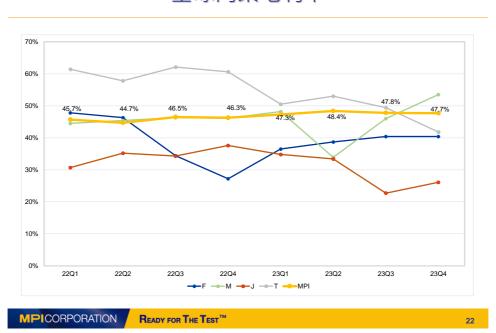


CPC及VPC成長趨勢

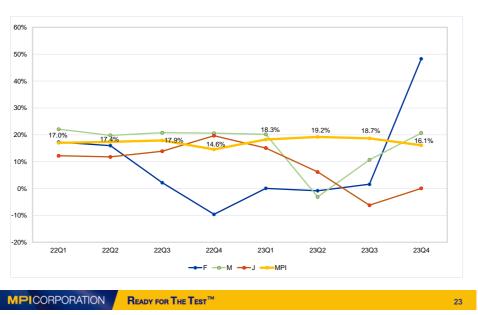


21

全球同業毛利率



全球同業營利率







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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27

27

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

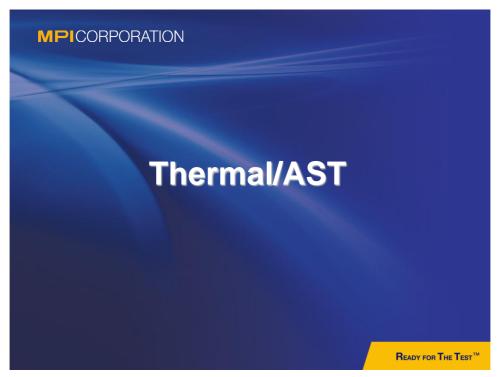
MPI works closely with market leaders and international brand names for most advanced testing solutions.

● 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.

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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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31



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.

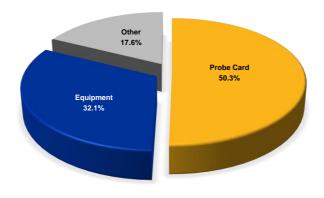
33

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2023出貨分布



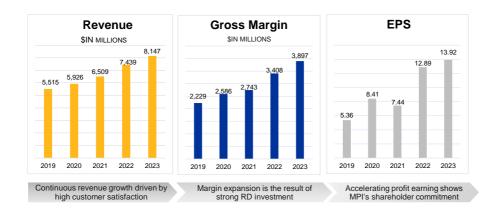
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35

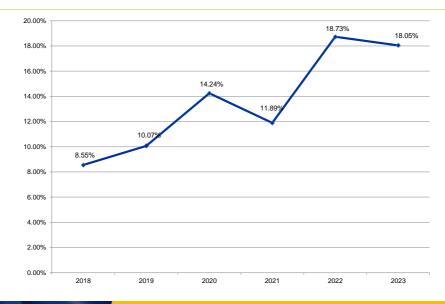
營業表現



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股東權益報酬率



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37

37

資產負債表

NT\$ Million	2023	2023		2022	
Cash and Cash Equivalents	2,579	21%	2,382	22%	
Fixed Assets	5,535	45%	4,494	41%	
Total Assets	12,439	100%	10,902	100%	
LT Debt	1,511	12%	1,038	10%	
Shareholders' Equity	7,620	61%	6,893	63%	
EBITDA	1,582	19%	1,445	19%	

*EBITDA=operating income + depreciation & amortization expenses

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綜合損益表

NT\$Million	2023		2022	
Net Sales	8,147,112	100%	7,411,929	100%
Cost of Goods Sold	4,250,049	52%	4,005,548	54%
Gross Profit	3,897,063	48%	3,406,381	46%
Operating Expense	2,425,698	30%	2,156,089	29%
Operating Income	1,471,365	18%	1,250,292	17%
Investment Income & Others	110,930		195,703	
Net Income (after tax)	1,309,575	16%	1,212,262	16%
EPS (after tax)	13.92		12.89	
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