

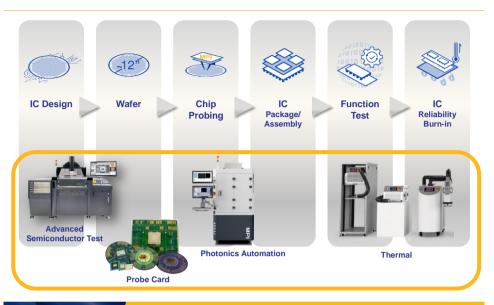
#### 免責聲明

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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### 議程



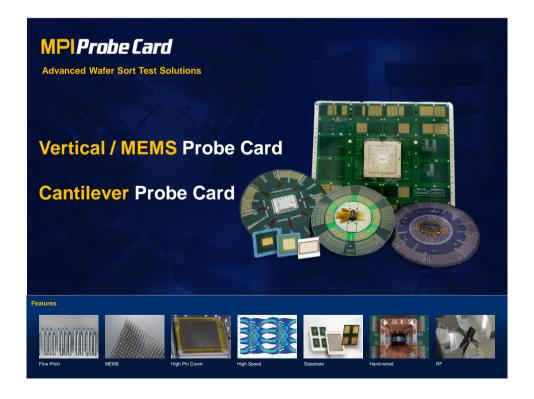
#### **Business Contents**

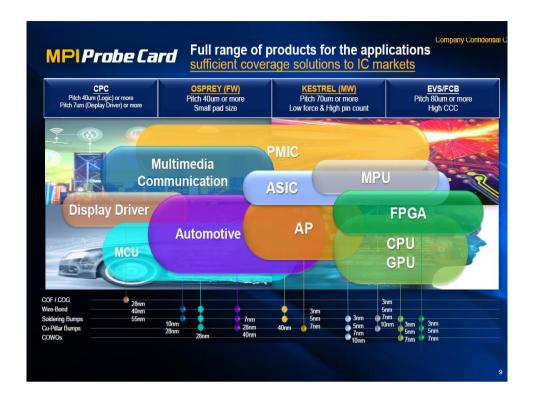
Probe Card
Photonics Automation
Thermal & AST



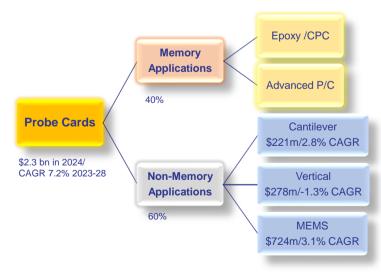
**Financial Statements** 







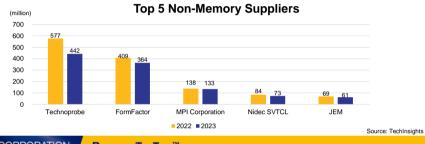
### 全球探針卡概況



Source: TechInsights

#### 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 (JEM) | Japan     | 4    | 5    | 5    | 4    | 5    | 5    |
| Nidec SVTCL                      | Singapore | 5    | 4    | 4    | 5    | 4    | 4    |



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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>high pin count MEMS</u> solutions.

#### ● Solid Global Clientele 堅實的國際合作夥伴

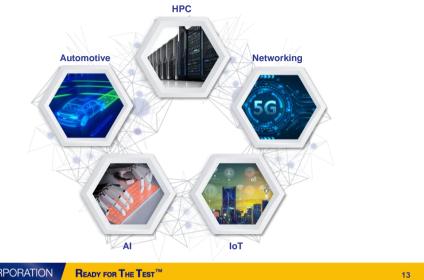
MPI works closely with worldwide market leaders, especially for the AI, HPC application related.

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

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

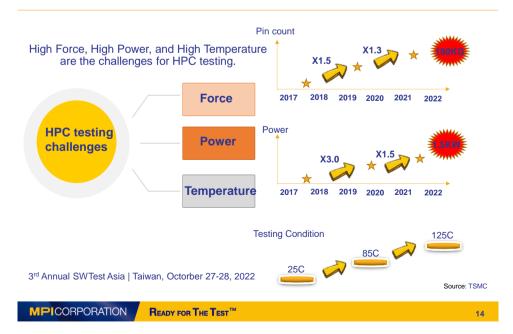
### HPC 需求

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



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# 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



|   |                              |                     | 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      |  |
|   |                              | RF/mmWave           | < 12 GHz  | 29 GHz     | +60 GHz      |  |
|   |                              |                     |           |            |              |  |
| 1 | Device<br>Power              | Main Power          | 900 mV    | 750mV      | 625mV        |  |
| i |                              | 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<br>Probe Card |                     | \$400K*   | >\$500K    | >\$700K      |  |

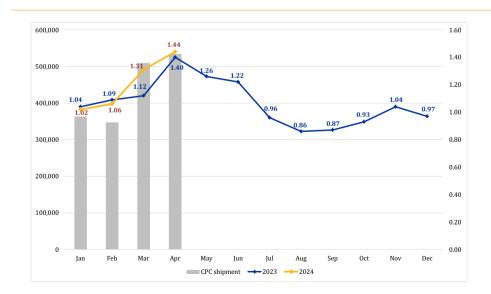
Source:Teradyne

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### CPC月出貨針數及月接單出貨比



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# VPC月出貨針數及月接單出貨比

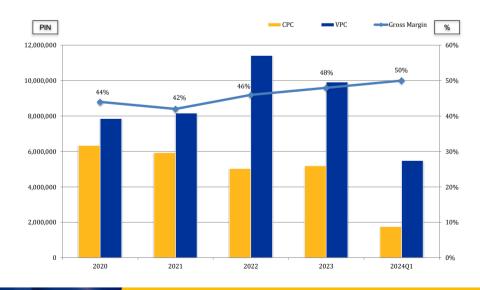


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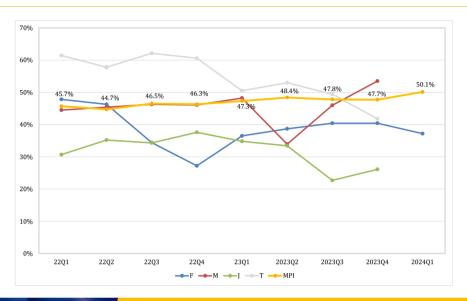
# CPC及VPC成長趨勢



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# 全球同業毛利率

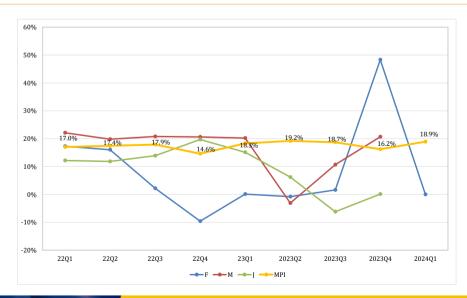


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# 全球同業營利率



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### 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

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# 發展計畫







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

#### 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.



#### AST:獨特的市場領導者

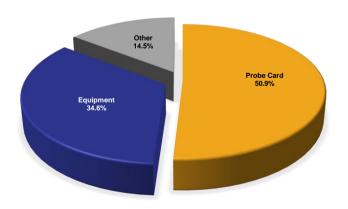
- Unique Global Position 全球獨特的市場地位 Combining Analytical probing solution and RF measurement core technology, MPI is top solution provider for full range hi-frequency response measurement.
- VOC Design 客戶導向設計

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

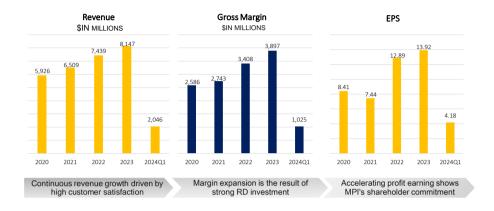
• Complete Solution 提供完整的解決方案 Various series of products to cover wide range applications include Device Modeling, RF & mmW, WLR, High-Power, Failure Analysis, Extreme temperature test ...etc.



# 2024 Q1出貨分布



# 營業表現

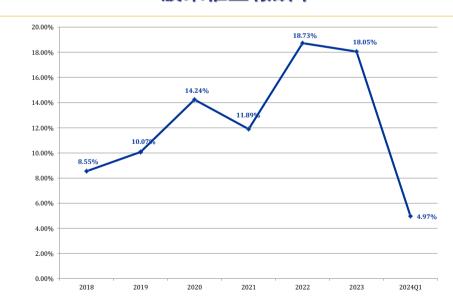


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# 股東權益報酬率



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# 資產負債表

| 1Q 2024 |  | 1Q 2023   |  |  |
|---------|--|---|--|--|
| 2,546   | 20%  | 2,385   | 22%  |  |
| 5,669   | 45%  | 4,481   | 41%  |  |
| 12,565  | 100%                                       | 10,952  | 100%   |  |
| 1,453   | 12%  | 996   | 9%   |  |
| 8,206   | 65%  | 7,204   | 66%  |  |
| 482     | 23%  | 336   | 19%  |  |
|         | 2,546<br>5,669<br>12,565<br>1,453<br>8,206 | 2,546 20% 5,669 45% 12,565 100% 1,453 12% 8,206 65% | 2,546       20%       2,385         5,669       45%       4,481         12,565       100%       10,952         1,453       12%       996         8,206       65%       7,204 |  |

<sup>\*</sup>EBITDA=operating income + depreciation & amortization expenses

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# 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%  |
| <b>Gross Profit</b>        | 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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