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 Divisions

Probe Card

Photonics Automation

Advanced Semiconductor Test

Thermal Test

Celadon Systems

MPI Global Presence

MPI Locations

Worldwide

MPI America
CA, USA (2017)

MPI Suzhou
Jiangsu, CN (2017)

Celadon Systems
MN, USA (2021)

Taiwan

Headquarters
Hsinchu, TW (2000)

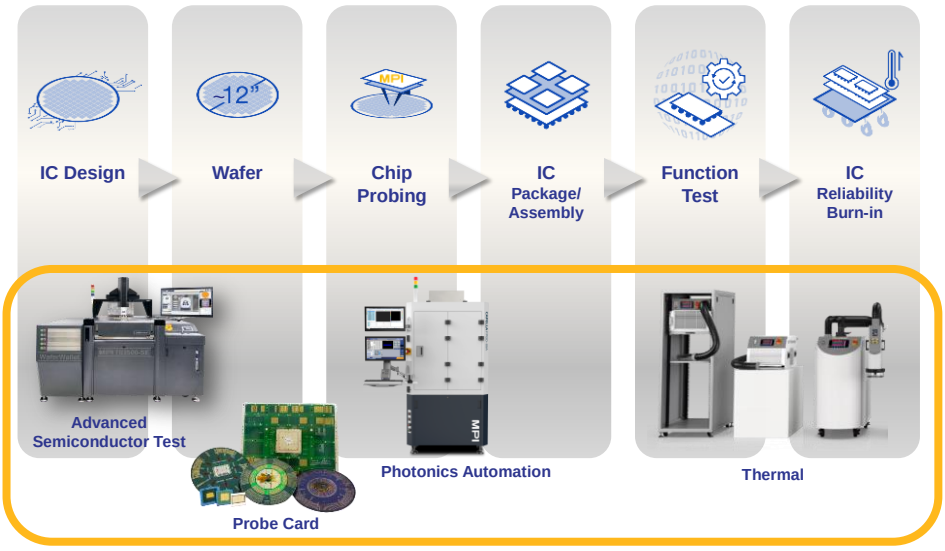
Luzhu Office
Kaohsiung, TW (2006)

2nd Production Site
Hsinchu, TW (2012)

Xinpu Office
Hsinchu, TW (2014)

3rd Production Site
Hsinchu, TW (2021)

MPI-The Powerhouse of Testing Solutions



Agenda

Business Contents

Probe Card

Photonics Automation

Thermal & AST

Financial Statements

MPI CORPORATION

Probe Card

READY FOR THE TEST™

MPI Probe Card

Advanced Wafer Sort Test Solutions

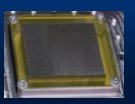
Vertical / MEMS

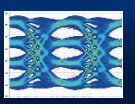
Cantilever

Features

Fine Pitch

MEMS

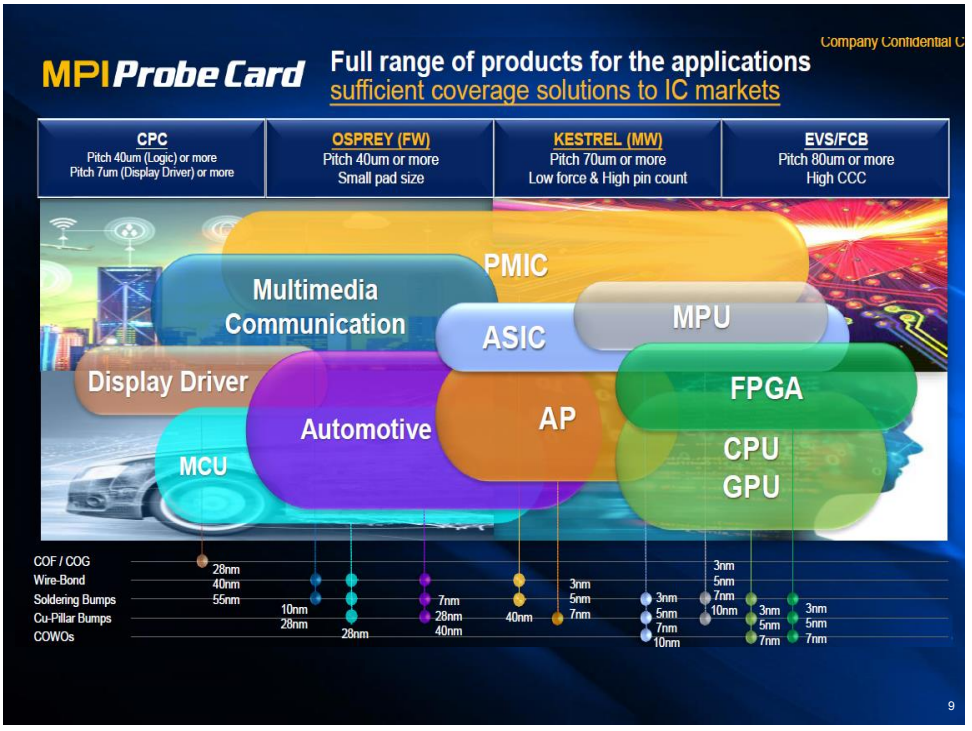

High Pin Count


High Speed

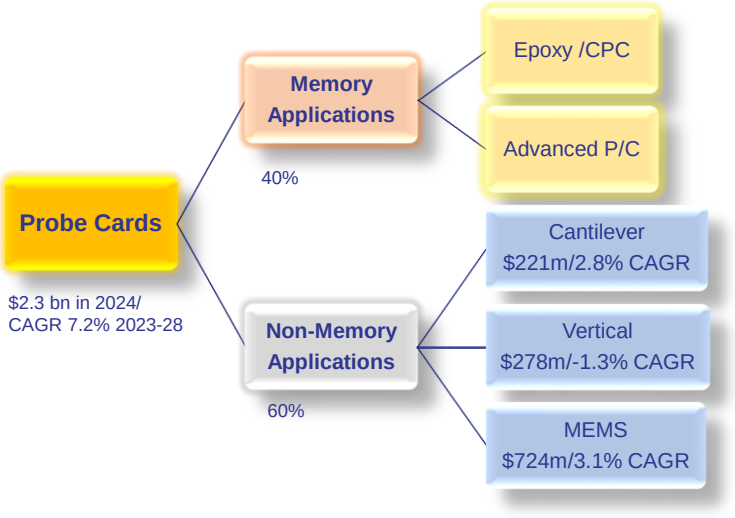
Substrate

Hand-wired

RF



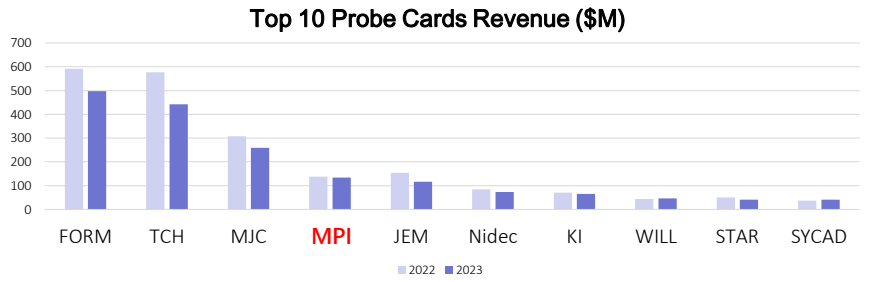
Global Probe Card Market Update



Source: TechInsights

Total Own Make IC Probe Cards Venders

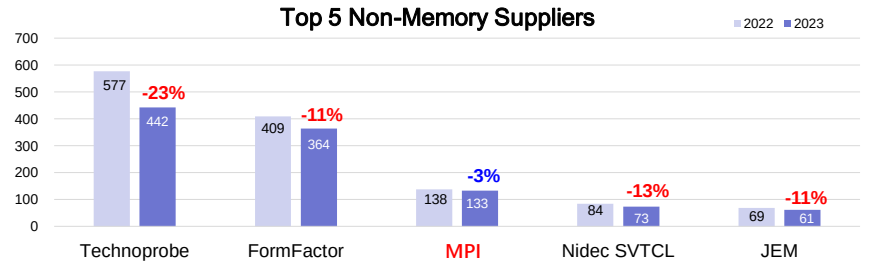
(Rank)		2020	2021	2022	2023
FormFactor	USA	1	1	1	1
Technoprobe	Italy	2	2	2	2
Micronics Japan	Japan	3	3	3	3
MPI Corporation	Taiwan	5	5	5	4
Japan Electronic Materials	Japan	4	4	4	5



Source: TechInsights

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



Source: 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.

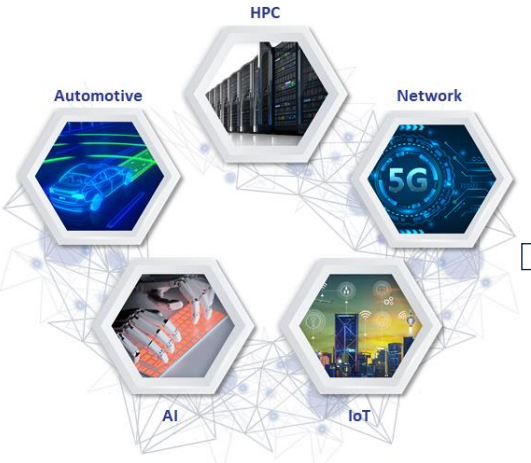
- **Solid Global Clientele 堅實的國際合作夥伴**

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

Fast Growing Applications



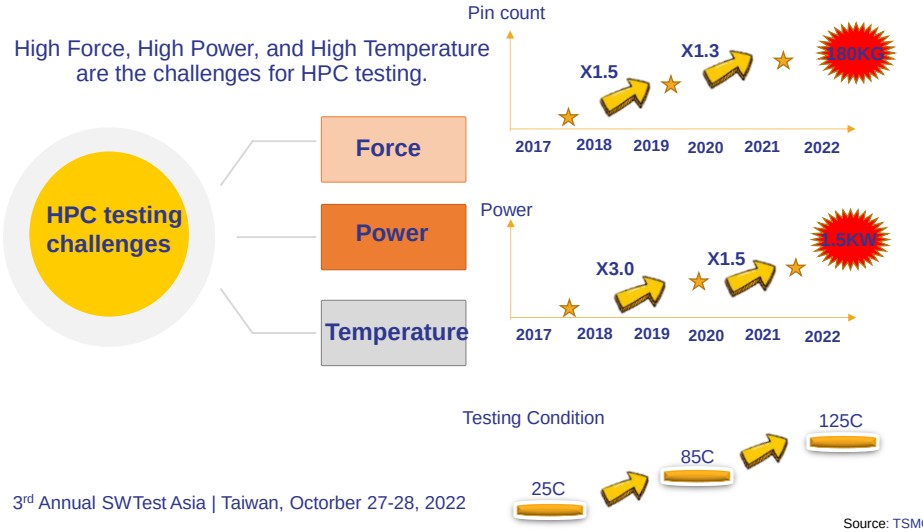
探針卡的挑戰

- 大面積
- Hi pin count
- Hi CCC
- Hi speed
- Fine pitch
- Low force
- 高低溫

Source: TSMC

HPC Challenges

High Force, High Power, and High Temperature are the challenges for HPC testing.



3rd Annual SWTest Asia | Taiwan, Octorber 27-28, 2022

Source: TSMC

Interface Technical Complexity Check in

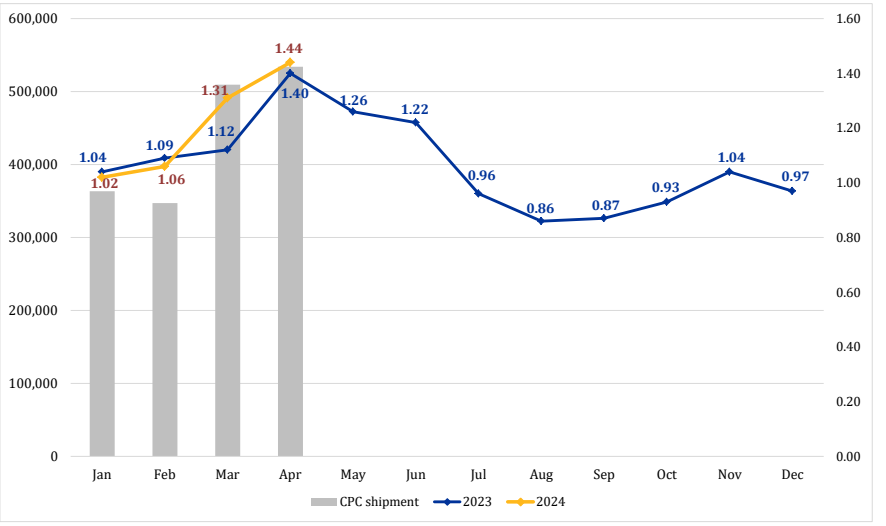
Complexity Trends are on pace to be at 2022 targets(1 Cycle) or in some cases beyond

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

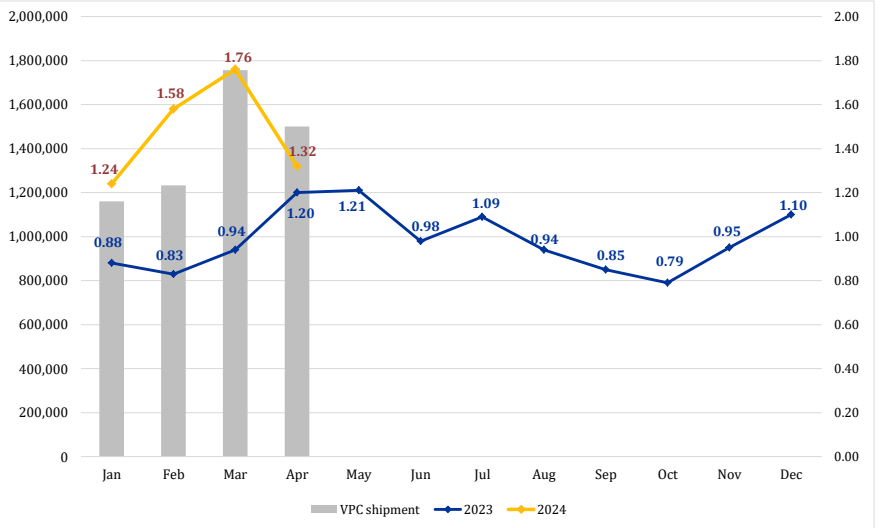
		2018	2022	2026
		Level 4	Level 5	Level 6
Pin Density	Pin Pitch	90um	70um	50um
	Total Contact Force	80kg	150kg	250kg
I/O Speed	Digital	32Gpbs	64Gpbs	128Gpbs
	RF/mmWave	< 12 GHz	29 GHz	+60 GHz
Device Power	Main Power	900 mV	750mV	625mV
	Single Rail	35A	50A	100A
	Impedance	2.2 mOhm	1.4 mOhm	0.8 mOhm
Thermal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

Source:Teradyne

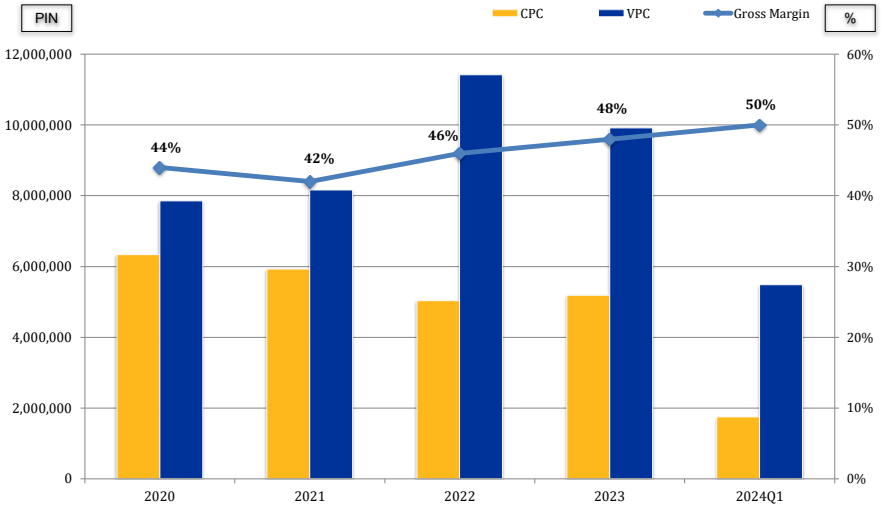
CPC Pin-Shipment & BB ratio



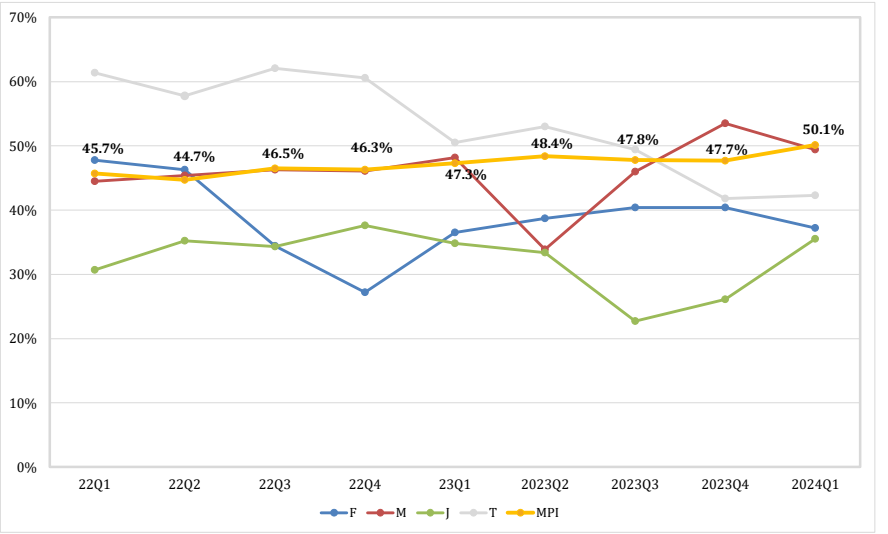
VPC Pin-Shipment & BB ratio



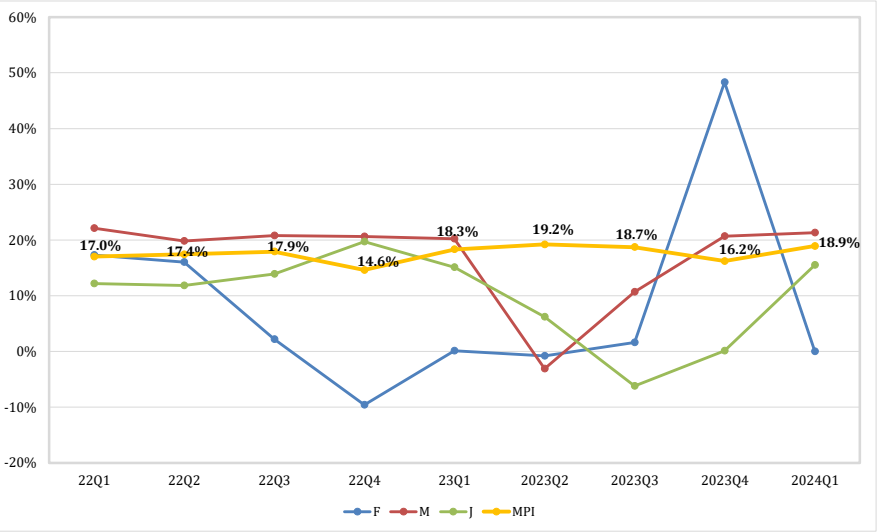
CPC and VPC Yearly Status



Gross Margin Between Global Peers



Operating Margin Between Global Peers



MPI Probe Card

Company Confidential C

Our Customer

The MPI is committing more than 800 customers globally to contribute to industrial development as well as providing testing industry advanced technology needs.

MPI CORPORATION

Photonics Automation

READY FOR THE TEST™

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
- **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

Development Plan by Application

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

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 lighting and electrical fields with automation 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.

MPI CORPORATION

Thermal/AST

READY FOR THE TEST™

MPI Thermal

Hot and Cold Air Flow
Environmental Temperature Test

-100°C +300°C

ThermalAir Series
Temperature Testing Systems

Applications & Industry Segments

Semiconductor

Automotive

Aerospace

Telecommunications

Fiber Optic

Electronics

Sensors

Advanced Technology

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.

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 , 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.

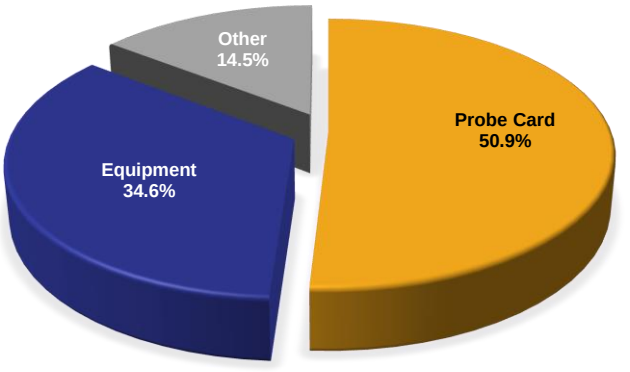
- **Complete Solution 提供完整的解決方案**
Various series of products to cover wide range applications include Device Modeling, RF & mmW, WLR, High-Power, Failure Analysis, Extreme temperature test …etc.

MPI CORPORATION

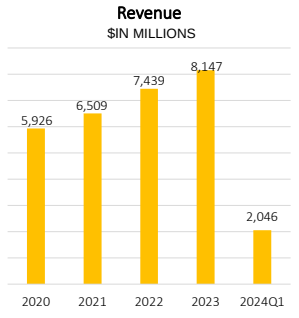
Financial Statements

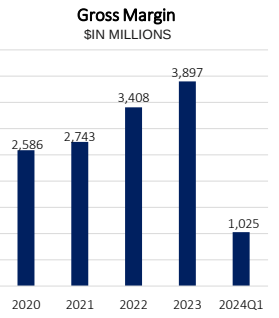
READY FOR THE TEST™

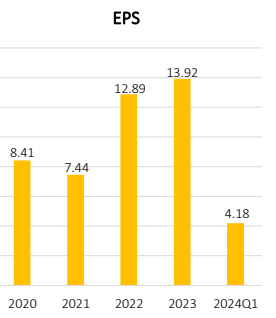
2024 Q1 Revenue Breakdown



Solid Performance





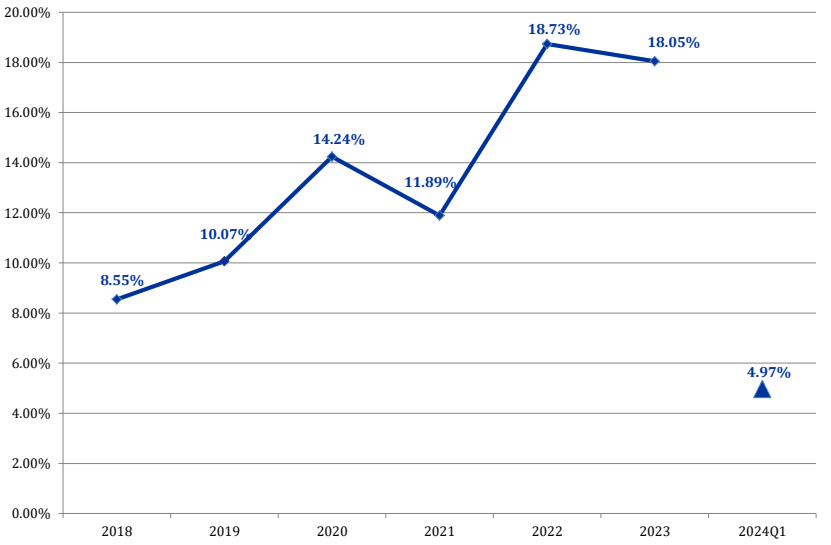


Continuous revenue growth driven by high customer satisfaction

Margin expansion is the result of strong RD investment

Accelerating profit earning shows MPI's shareholder commitment

ROE



Balance Sheet Highlight

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

P&L

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	