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凱基證券投資論壇

KGI Taiwan Corporate Day

2026 Q1

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本簡報包含關於 Taiwan Semiconductor Inc. (TSC) 業務前景、策略規劃、產品開發及市場狀況的前瞻性陳述。這些陳述反映了管理層當前的預期和假設，本質上存在重大風險和不確定性。由於包括但不限於全球經濟形勢變動、客戶需求演變、監管發展、供應鏈限制及競爭動態等因素，實際結果可能與預測存在重大差異。

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# Content

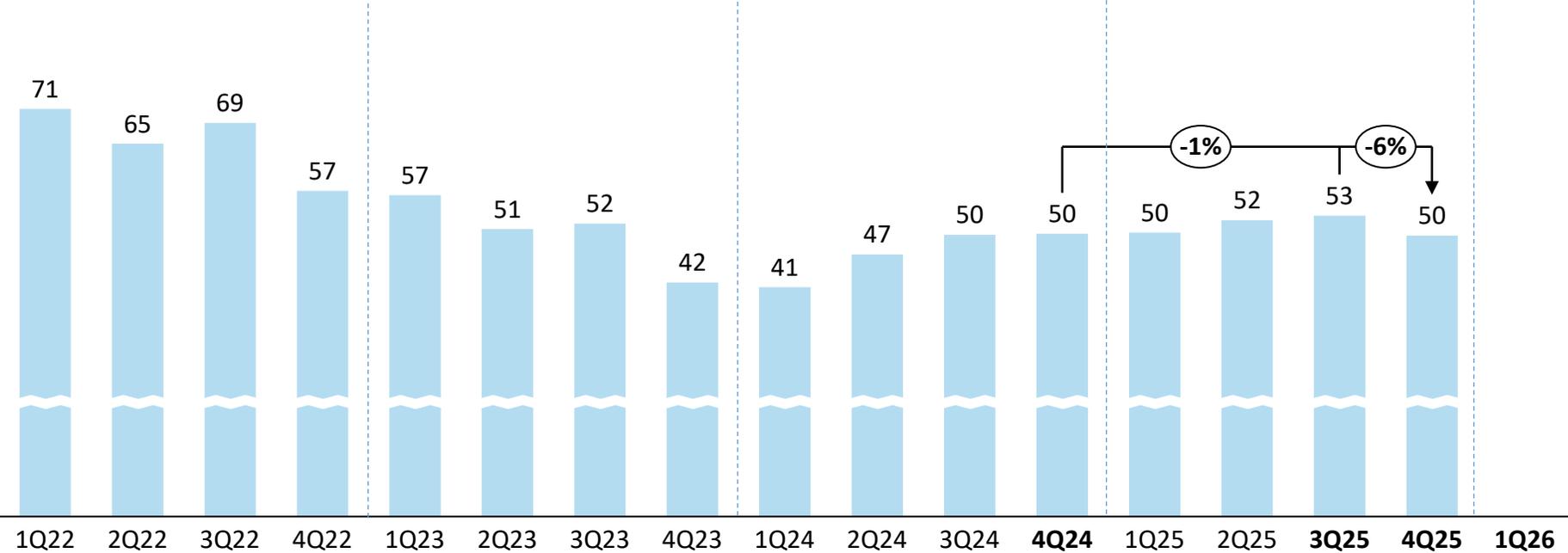
- Financial Trends
- Revenue Breakdown
- Product Application
- Q&A

**Financials**  
**4Q25**

Taiwan Semiconductor Co., Ltd

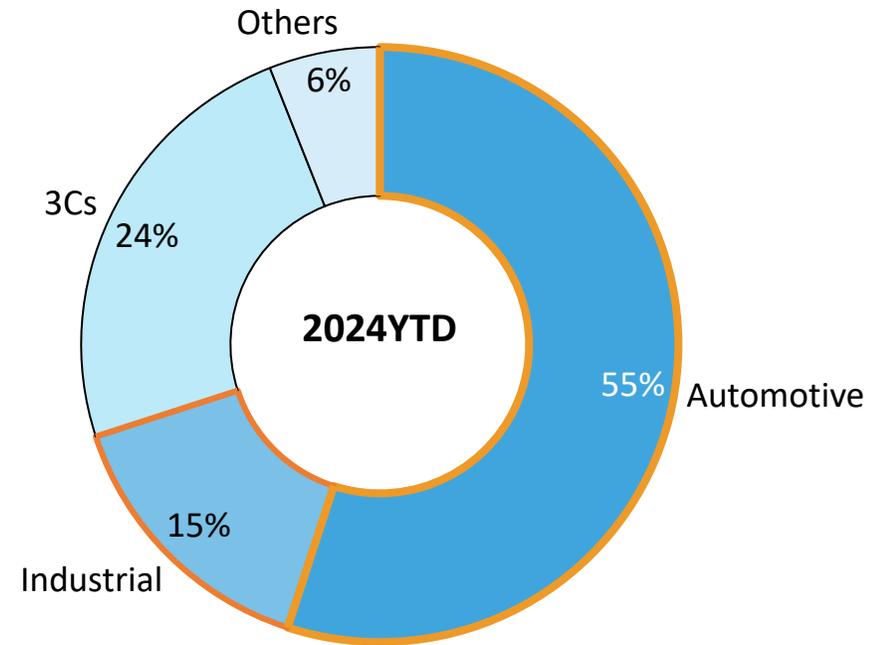
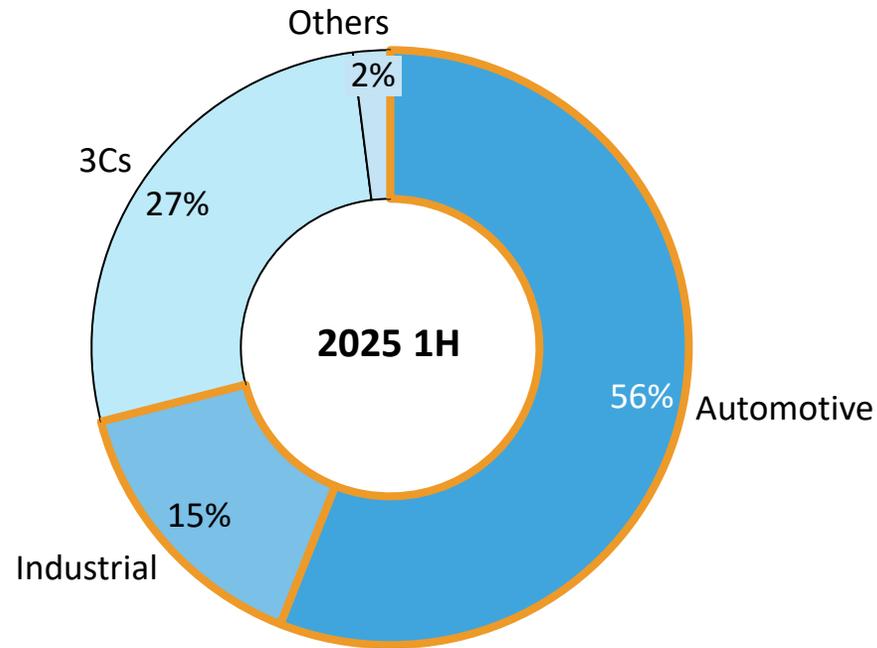
# Quarterly Sales (Semi)

Unit: \$USD M

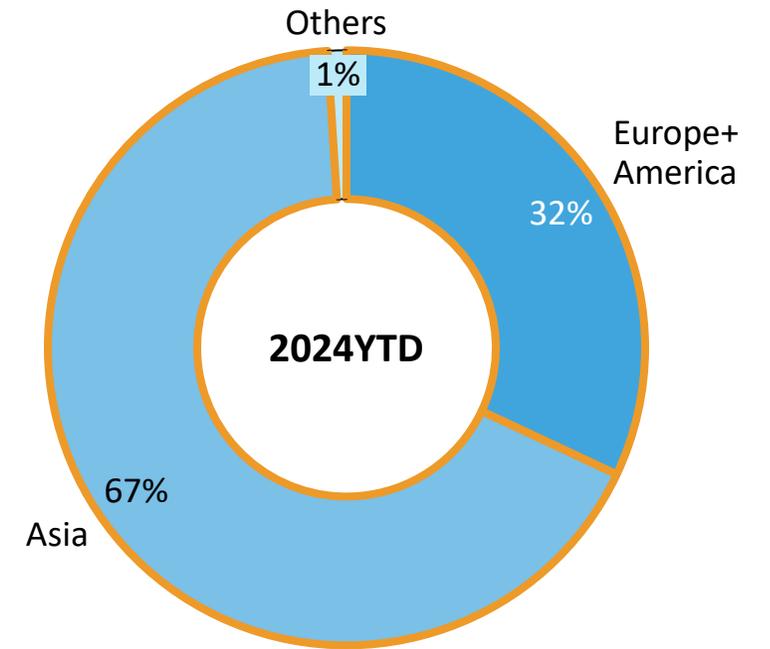
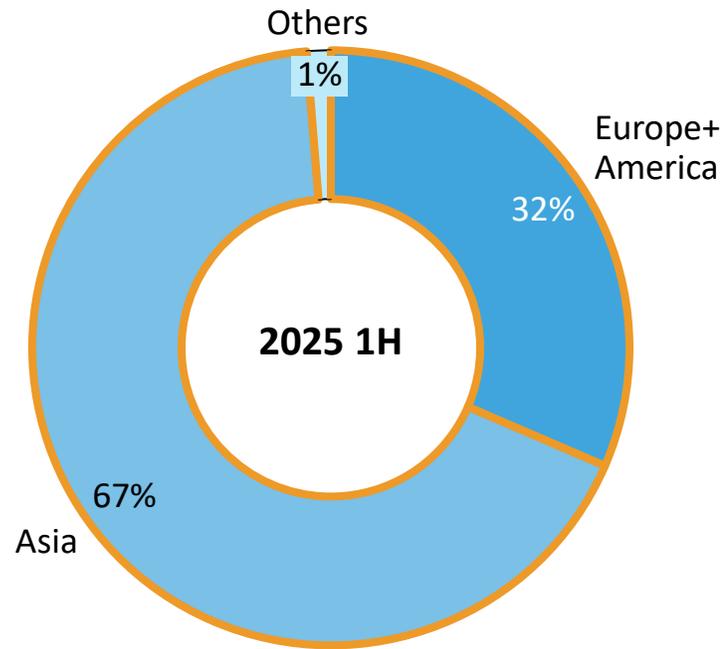


# Applications

Auto + Industrial **70%** of Revenue



# Regions

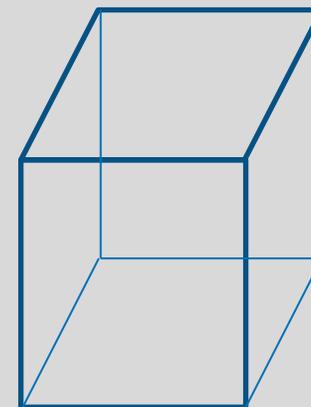


台灣半導體(股)

Taiwan Semi

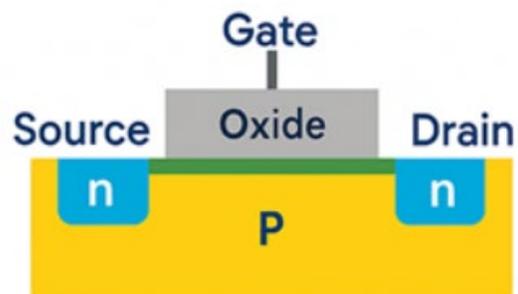
(系列專輯)

MOSFET Applications



# MOSFET

(Metal-Oxide-Semiconductor Field-Effect Transistor)



## 消費性電子

- 筆記電腦與桌機
- 電源供應器
- 行動裝置
- 家電與照明

## 工業控制

- 伺服器電源
- 電信基地台
- 工業自動化
- 電動工具

## 再生能源

- 太陽能逆變器
- 儲能系統
- 不斷電系統
- 電網系統

## 車用電子

- 動力總成
- 安全控制
- 車身電子
- 自動駕駛

# Automotive Grade (AEC-Q101)

## 定義

- 依據AEC國際汽車電子協會 (Automotive Electronics Council) 為車規驗證標準
- 符合零失效(Zero Defect) 品質管理標準IATF 16949規範

## 特性

- 高溫高壓 環境
- 生命週期長
  - 產品可靠度
  - 長期供貨
- 穩定供應鏈及產線

## 規範

- AEC-Q100 (IC)
- **AEC-Q101 (Discrete)**
- AEC-Q200 (Passive Component)
- ...etc

## 應用

- 空調 / 雨刮器
- 電動車窗 / 門
- 動力轉向
- 煞車輔助
- DC/DC轉換
- 電池管理

# AEC-Q101 MOSFETs

## 40V MOSFETs (12V 客用)

- Infineon
- ON Semi
- Nexperia
- **Taiwan Semi**

## 60V / 80V MOSFETs (24V 商用)

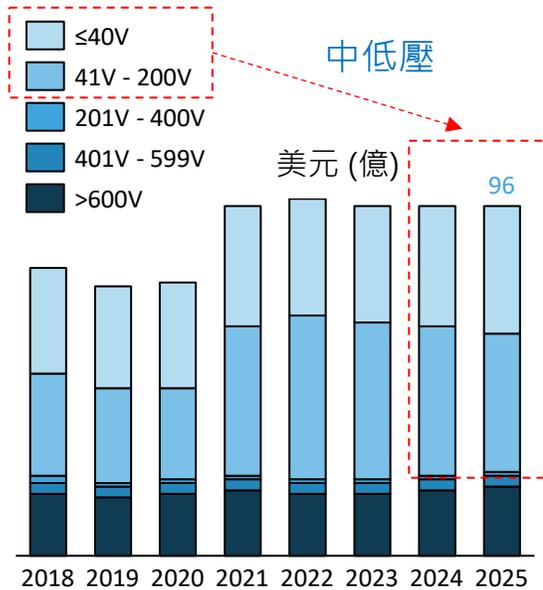
- ON Semi
- **Taiwan Semi**

## 80V / 100V MOSFETs (48V 油電)

- ROHM
- Toshiba
- **Taiwan Semi**

## 150V MOSFETs (elec. bike)

- Infineon
- Toshiba
- ROHM
- **Taiwan Semi**



# AEC-Q101

## MOSFETs

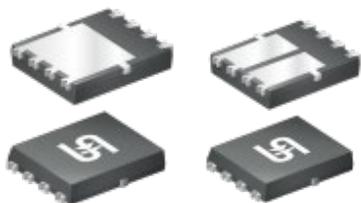
### Application Estimation

<b>AEC-Q101 MOSFET</b>	<b>BEV (純電車)</b>	<b>HEV/PHEV (輕油電)</b>	<b>ICE (燃油車)</b>
<b>40V - 100V</b>	<b>320</b>	<b>200</b>	<b>150</b>
BMS	200	80	-
e-Fuse	50	30	15
BSG/ISG	20	30	-
Engine Control	-	-	40
Body Electronics	30	30	60
Seat / Window ...etc	10	20	25
ADAS / Infotain	10	10	10
<b>600V ~</b>	<b>80</b>	<b>50</b>	<b>-</b>
Traction inverter	35	30	-
OBC	15	10	-
DC/DC	15	10	-
HV System	15	-	-
<b>TTL</b>	<b>400</b>	<b>250</b>	<b>150</b>

# Taiwan Semi

## MOSFETs

### Product Development

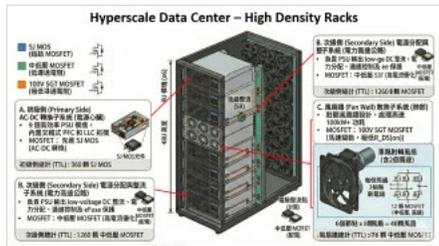


產品數量 (進位約當量)	Standard (標規)	AEC-Q101 (車規)	TTL (總約當量)
<b>N-Channel</b>	<b>190</b>	<b>60</b>	<b>250</b>
20V	10	-	10
30V	30	-	30
40V	40	20	60
60V	40	20	60
80V	10	10	20
100V	20	10	30
600V	40	-	40
<b>P-Channel</b>	<b>40</b>	<b>10</b>	<b>50</b>
-20V	10	-	10
-30V	10	-	10
-40V	10	-	10
-60V	10	10	20
<b>TTL</b>	<b>230</b>	<b>70</b>	<b>300</b>

### 產品優勢

- 自主設計
- 台灣晶圓廠 代工協作
- 產品規格提升
- 品質 + 價值 + 競爭力

# Hyperscale Data Center MOSFETs Projection



HDC MOSFET (Hyperscale Data Center)	Primary Side 600V	Secondary Side 40V - 100V	Fan Wall 40V - 100V
48U Rack	AC - DC	整流	馬達
Shelf / per 8U	1	1	1
Nodes			6
PSU	9	9	
per PSU	40	60	
PDU		6	
per PDU		120	
Fans			8
per Fan (3-ph BLDC)			12
<b>TTL</b>	<b>360</b>	<b>1,260</b>	<b>576</b>



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Q & A

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