



# ASPEED Technology Investor Conference

June 2025



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Please note that while we have made every effort to list all significant risks, there may still be other risk factors that have not been identified or currently appear to be insignificant.

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請注意，儘管我們已盡力羅列各項重要風險，但仍可能存在尚未識別或當前看似不顯著的其他風險因素。



# Agenda

- Company Profile
- Product Portfolio
- BMC in AI Servers
- 2025 Q2 Guidance
- Q&A

The ASPEED logo is located in the top left corner. It features the word "ASPEED" in a bold, italicized, white sans-serif font. The background of the slide is a futuristic server room with glowing blue network lines and a person standing in the center, looking at the digital display.

**ASPEED**

# Company Profile



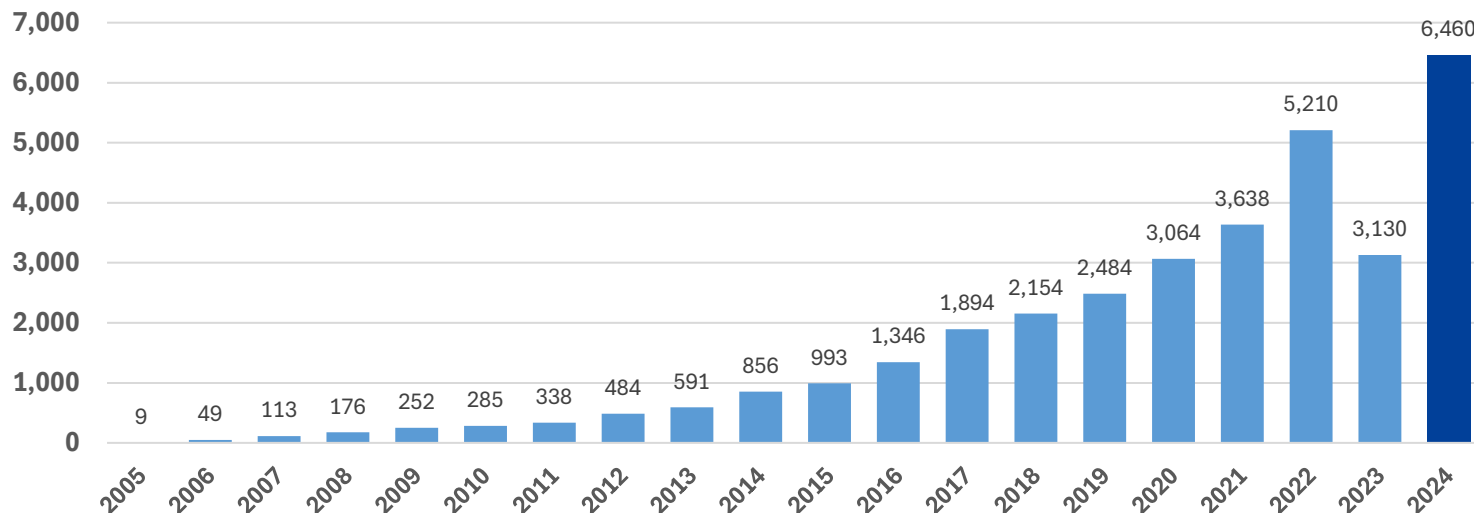
# Company Profile

- Founded in 2004
- Fabless-lite IC design company
- Number of employees: 126 (as of March 2024)
- Product lineup
  - Cloud & Enterprise (BMC/BIC/PFR): **#1 in BMC**
  - Smart AV (Cupola360 & AVoIP SoC): **#1 in AV over IP (1G Ethernet)**  
**#1 in Commercial 360 camera**
- Locations:
  - Headquarter: Hsinchu City, Taiwan
  - Branch office: Taipei City, Taiwan
  - US office: San Jose, CA

# Historical Revenue

- The cumulative revenue in 2024 reached **NT\$6.46 billion**, representing a **106.35%** growth compared to the cumulative revenue for the same period last year.

Million NT\$



The ASPEED logo is located in the top left corner. It features the word "ASPEED" in a bold, italicized, sans-serif font. The letter "A" is stylized with a horizontal line through its middle. The logo is white and stands out against the dark, glowing background of the circuit board.

**ASPEED**

The title "Product Portfolio" is positioned on the right side of the slide, within a solid blue triangular area. It is written in a clean, white, sans-serif font.

# Product Portfolio

# Product Portfolio



**Cloud &  
Enterprise**

BMC : AST2500, AST2600, **AST2700, AST2750**

BIC : AST1030

PFR : AST1060

I/O Expander : **AST1700, AST1800**

**Smart AV**

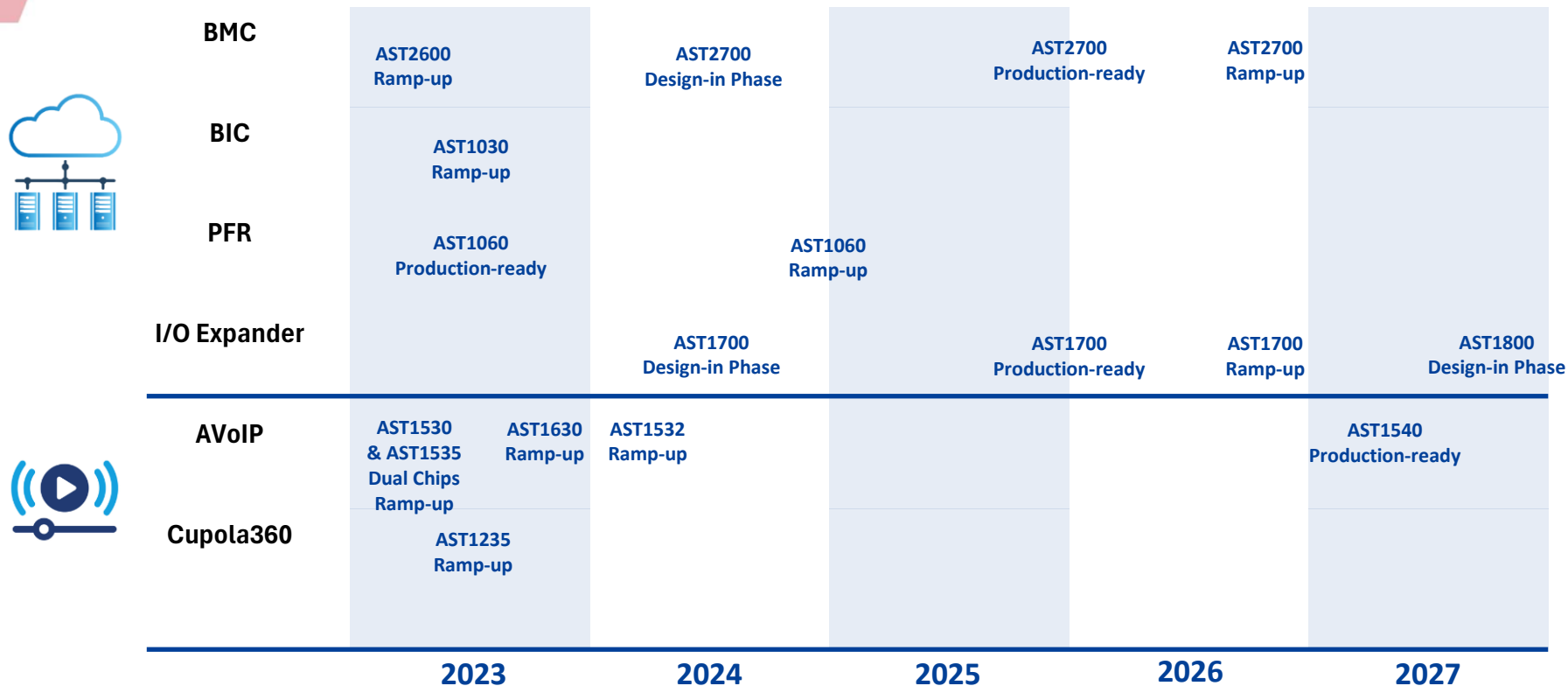
AV Matrix : AST1520, AST1530

AV Extender: AST1620, AST1630

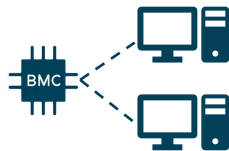
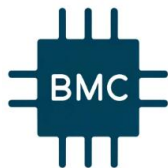
Cupola360 : AST1220, AST1230



# Product Roadmap



# AST2700 Enhancement and Innovation



The most powerful BMC ever built (28x faster)

- 1 ARM Cortex® –A35 (Quda-core 1.6GHz per core)
- 2 ARM Cortex® –M4 (400MHz)
- 2 RISC-V CPU

\* Multi-Thread benchmark between AST2600 and AST2700

The 1<sup>st</sup> BMC supports Dual-Node

- AST2750

Integration of Southbridge features

- USB 3.2 over PCIe xHCI

Compliant with OCP DC-SCM Standard

- LVDS Tunneling and Protocol Interface (LTPI)
- SiRoT (Caliptra)

arm

RISC-V



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# AST1060 – Platform Root of Trust



## Enhanced Security

- Compliant with NIST SP 800-193 PFR
- Immutable / fail-over boot ROM
- SPI & I2C/SMBus traffic filtering



## Key Functionalities

- Protection: real-time firmware protection
- Detection: firmware measurement and authentication
- Recovery: firmware roll back feature



## Real-time Hardware Monitoring

- Constantly monitor and filter accesses in hardware

# AST1700 Advantages



## Simplify the H/W Design

- Firmware-less and LTPI interface connect to AST2700
- EIO (I3C, I2C, GPIO, JTAG, PWM, FAN Tech...)



## Simplify the S/W Development

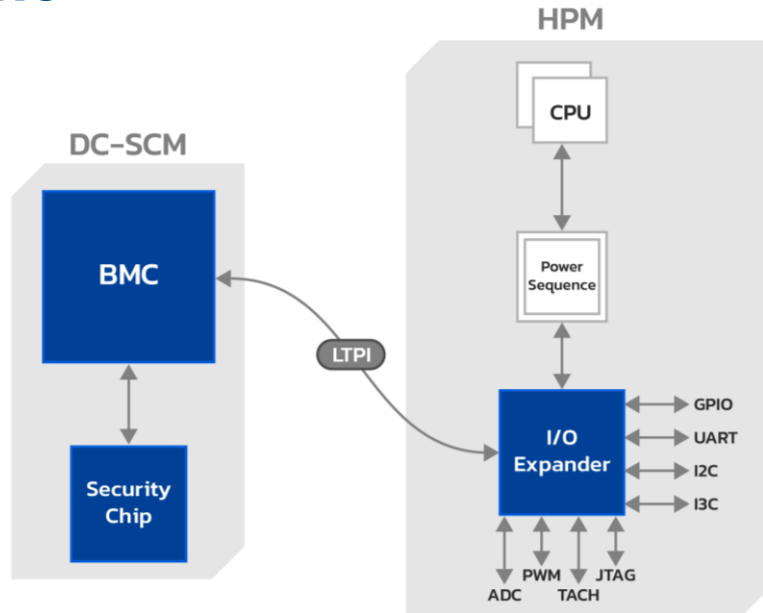
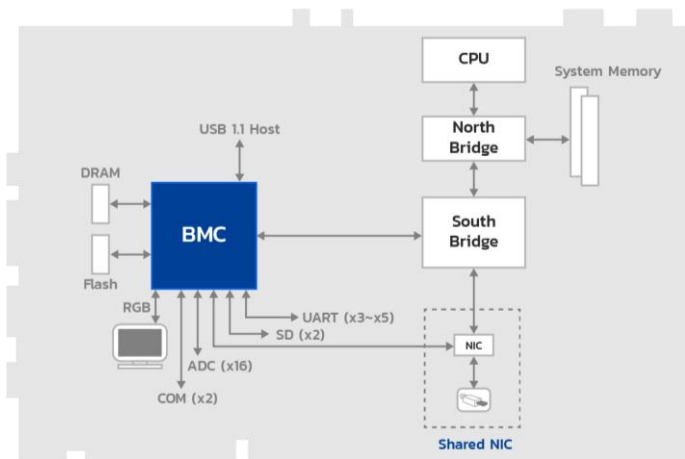
- No S/W development, upgrade, maintenance and protection efforts
- Seamlessly controlled by AST2700 series product



## Differentiated Value-added features

- I3C Expansion and MCTP over I3C
- MCTP over SMBus (I2C)

# The Trend of Modular Designs

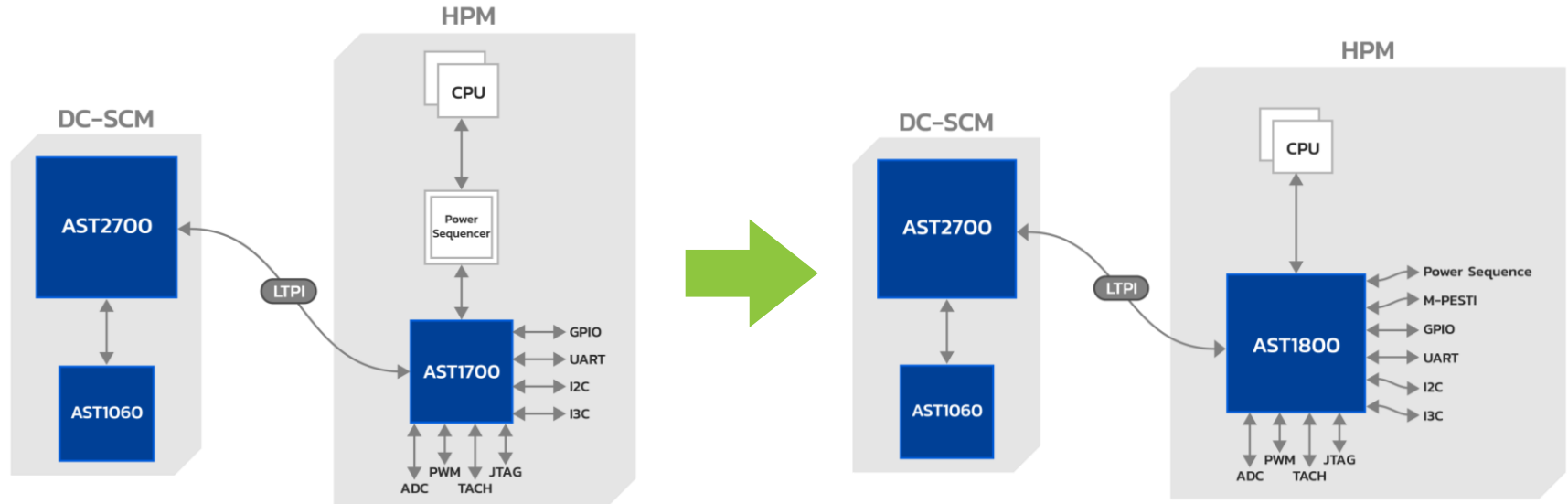


## Features:

- Faster time-to-market
- Flexible to outsource & manufacture
- Create new business opportunity for **ASPEED : I/O Expander**

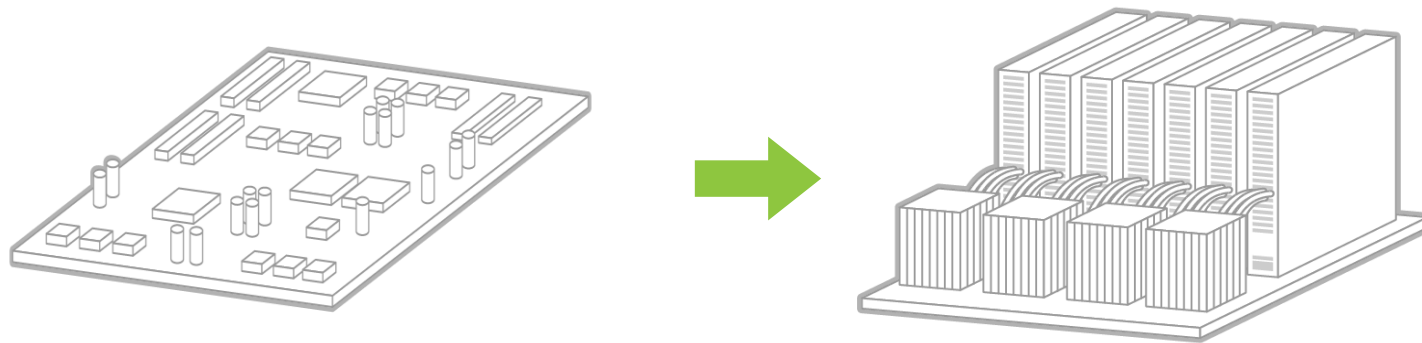
# Simplify Future Server Design

- AST1800 inherits the advantages of AST1700 – more interface but simpler design.
- More versatile with embedded FPGA.
- FPGA development tools – Synthesis, Place & Route; Programming; Logic Analysis.



# Further Modular Design

From general purpose to application-specific design, with add-on Modules/Cards

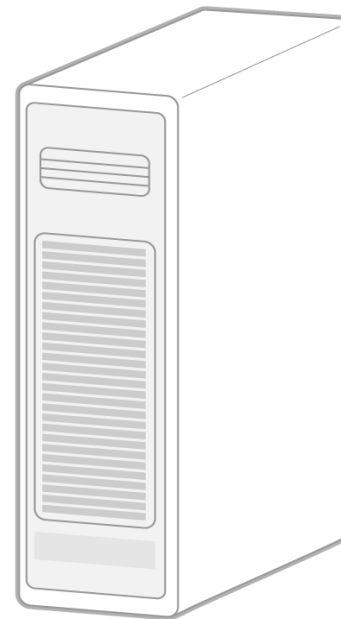
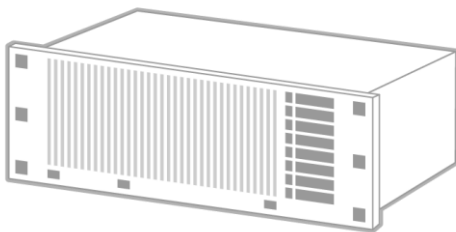


## Features:

- Purpose-built with add-on modules/cards
- Higher compute density with more CPUs, GPUs, or other add-on cards
- Improved thermal and power management
- Business opportunity for **ASPEED Bridge IC**
- ASPEED Bridge IC enables **2-level management**

# Ultimate Modular Design

Rack-level system design for both GPU and AI ASIC servers



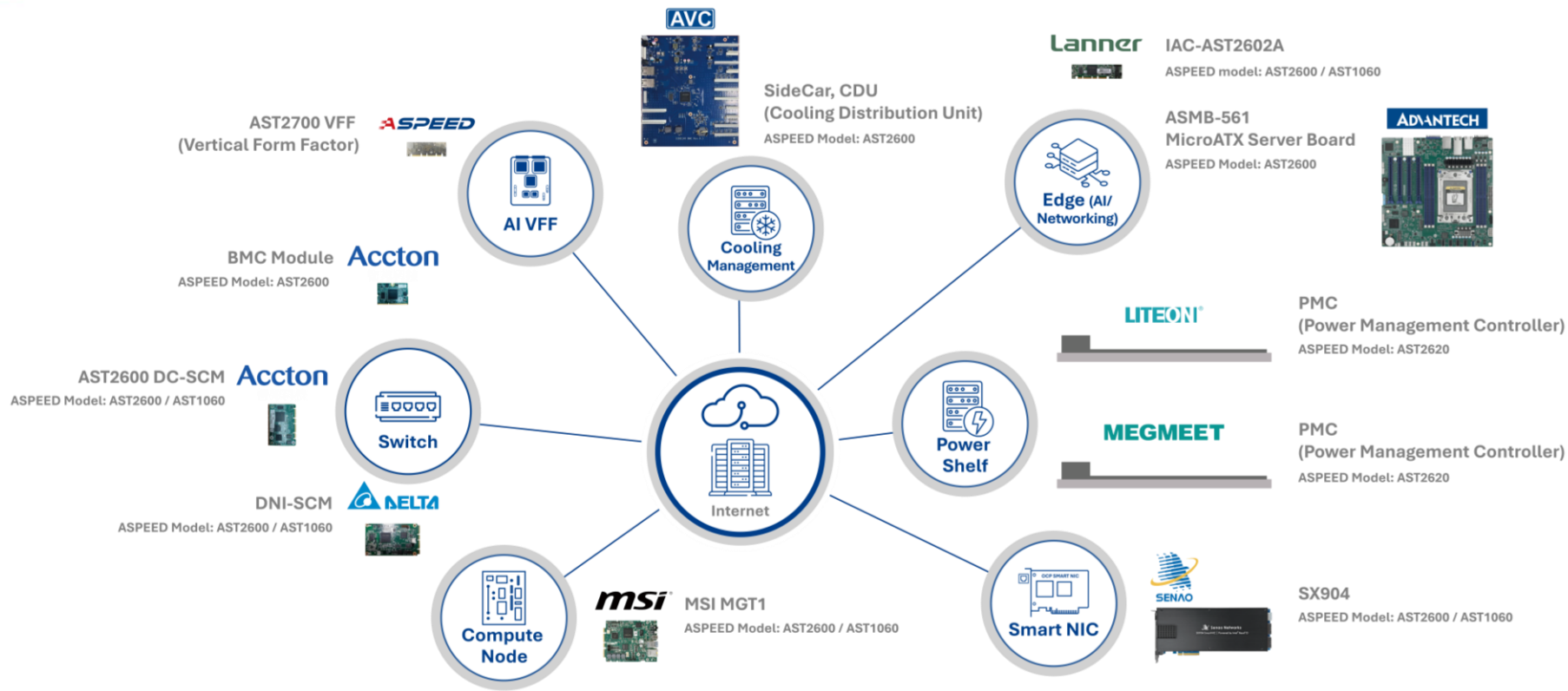
## Features:

- Consolidated power, cooling, networking
- Improved resource utilization
- Ideal for large-scale data centers
- Business opportunities for **ASPEED BMC content growth** in compute trays, switch trays, power shelves, OOB switches, and CDUs, etc.



# Advancing Towards Diverse Applications

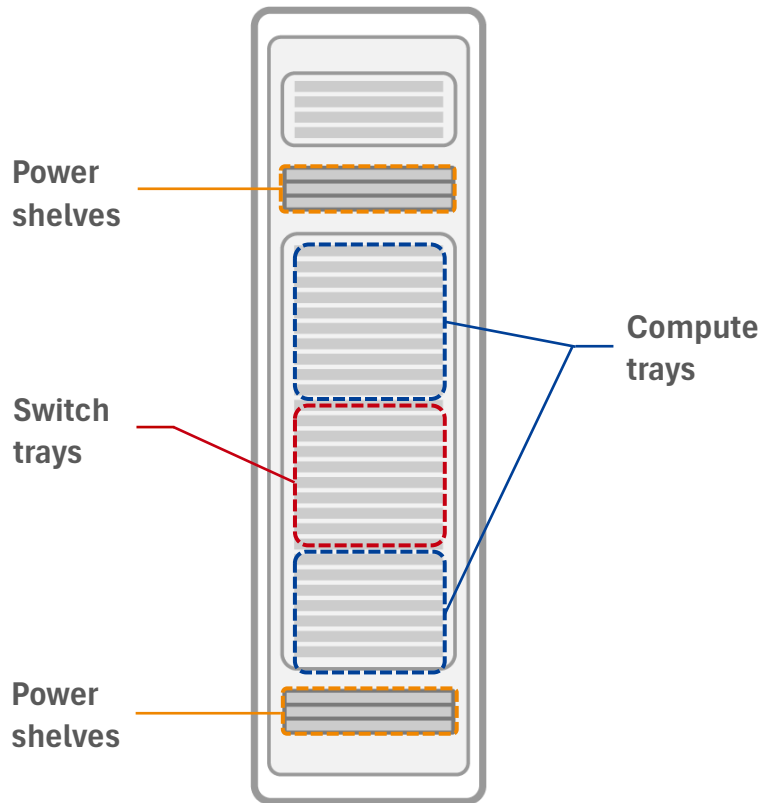
Cloud & Enterprise SoCs Enable Innovation with Comprehensive Solutions



The background of the slide is a photograph of a server rack. On the left side of the rack, four NVIDIA GPUs are visible, each with a black and gold front panel. To the right of the GPUs, the internal components of the server are visible, including multiple rows of blue network ports and various cables. The right side of the image is partially obscured by a dark blue diagonal overlay that contains the title text.

# BMC in AI Servers

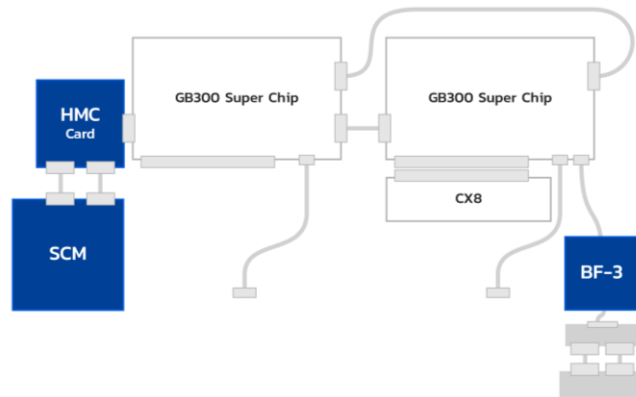
# BMC Content in GPU AI Servers



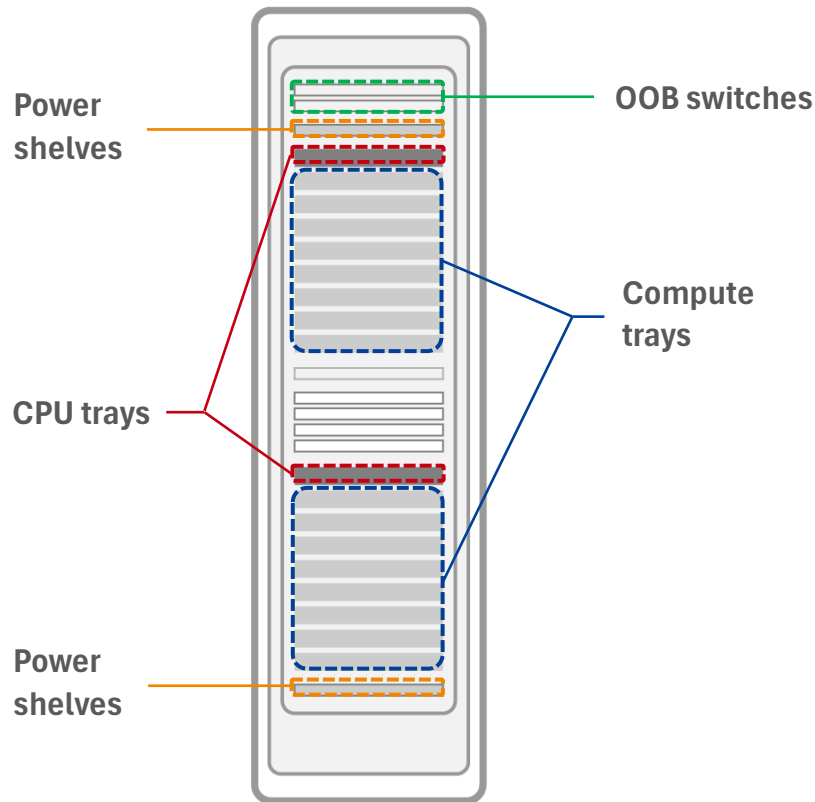
There are **71 BMCs** in **GB300 NVL72**

- 54 BMCs in 18 compute trays
- 9 BMCs in 9 switch trays
- 6 BMCs in 6 power shelves
- 2 BMCs in 2 out-of-band switches

Simplified layout of a compute tray



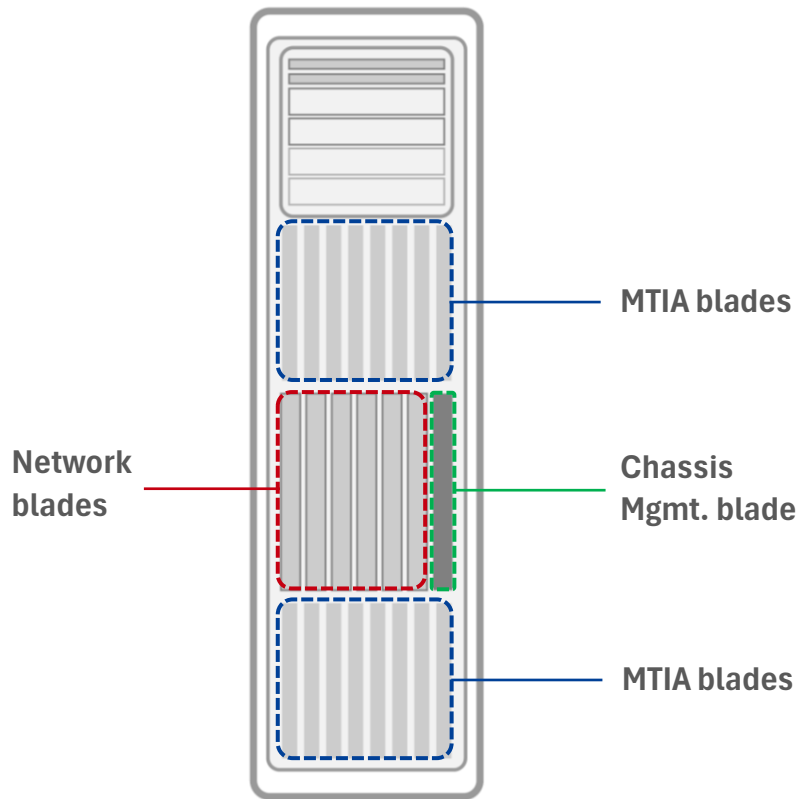
# BMC Content in AI ASIC Server 1



There are **22 BMCs** in AI ASIC server 1

- 2 BMCs in 2 CPU trays
- 16 BMCs in 16 compute trays
- 2 BMCs in 2 power shelves
- 2 BMCs in 2 out-of-band switches

# BMC Content in AI ASIC Server 2



There are **23 BMCs** in AI ASIC server 2

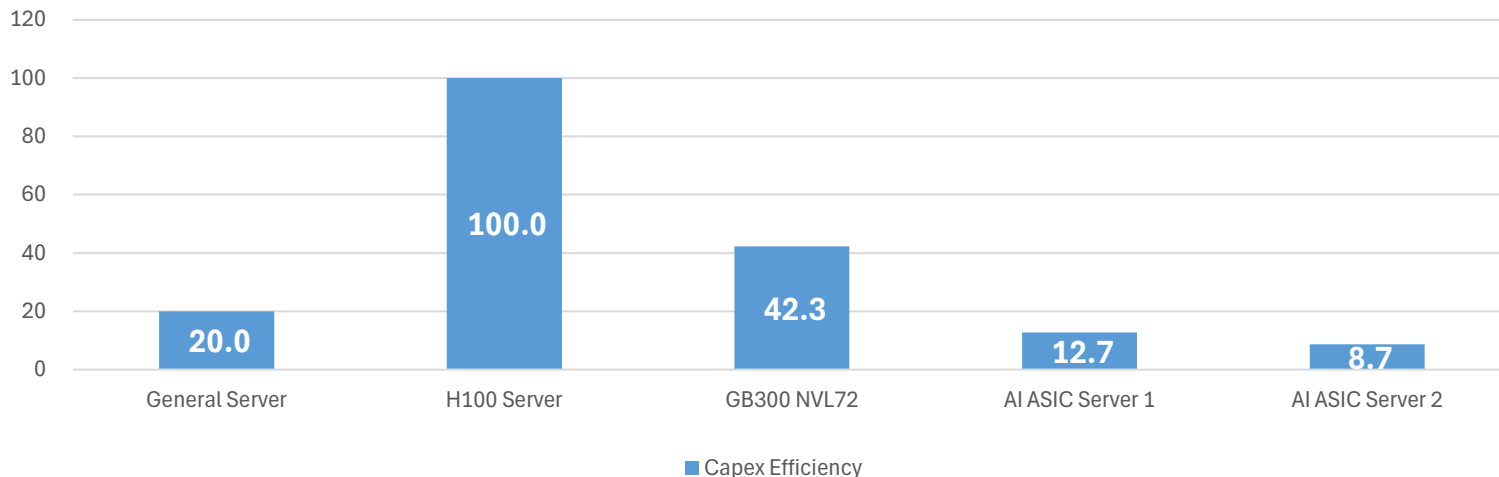
- 16 BMCs in 16 MTIA blades
- 6 BMCs in 6 Network blades
- 1 BMCs in Chassis Mgmt. blade

And **16 BICs**

- 16 BICs in 16 MTIA blades

# Capex Efficiency

Thousand USD



- Note:**
1. Capex efficiency is defined as the amount of server spend that will contribute to one BMC demand.
  2. The lower capex efficiency, the better for ASPEED.
  3. Assuming the price of GB300 NVL72 is US\$3.0M and there are 71 BMCs per rack.
  4. Assuming the prices of AI ASIC Server 1 & Server 2 are US\$280K and \$200K, respectively.
  5. Assuming the BMC content for AI ASIC Server 1 & Server 2 are 22 and 23, respectively.
  6. AI ASIC Server 2 also requires 16 ASPEED Bridge ICs.

## 2025 Q2 Guidance



# 2025 Q2 Guidance

	Previous Guidance	Updated Guidance
<b>FX Rate</b>	1 USD = 32.5 TWD	1 USD = 30.5 TWD
<b>Consolidated Revenue</b>	NT\$1.7B ~ \$1.8B	NT\$1.9B ~ \$2.0B
<b>Gross Margin</b>	65.0% ~ 66.5%	64.5% ~ 66.0%





# Q&A

***ASPEED***