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# Samsung System LSI

Investor Presentation 2024

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**Business Update Market Opportunities** Samsung Strategy Key Takeaways

### Financial Highlights

Steady growth based on endless technology innovations

SAMSUNG

On-device Al 🗾

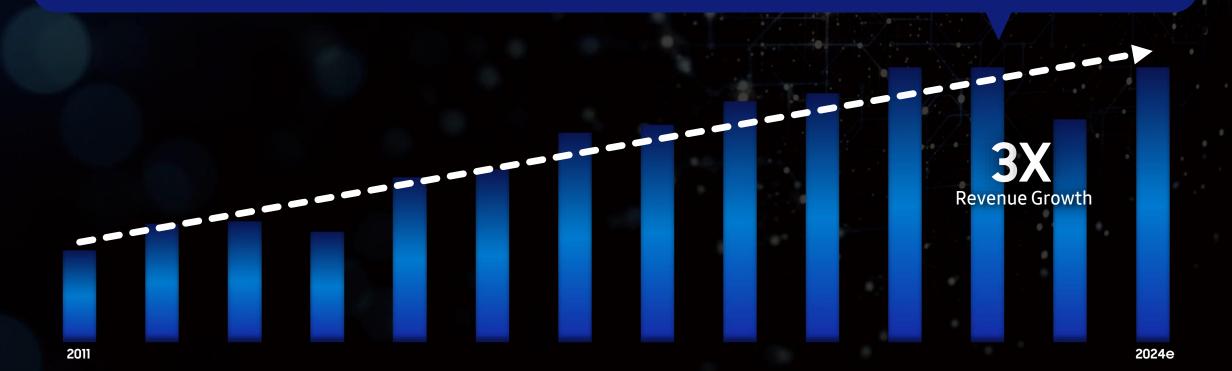
Pioneering with flagship processor



Expanded applications of 200MP image sensor

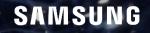
20+ Years

Leading display driver IC market



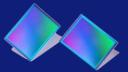
### **Business Portfolio**

Broad range of logic chips for diverse applications









CIS

Power Managment IC



Display Driver IC Touch Controller





NFC/eSE/SIM Banking/ID Security



**DTV SoC** 



**Auto SoC** 



**Auto CIS** 

Smartphone



Wearable



**Auto** 



Robot



### Global Network

Worldwide R&D expertise for top-notch technologies



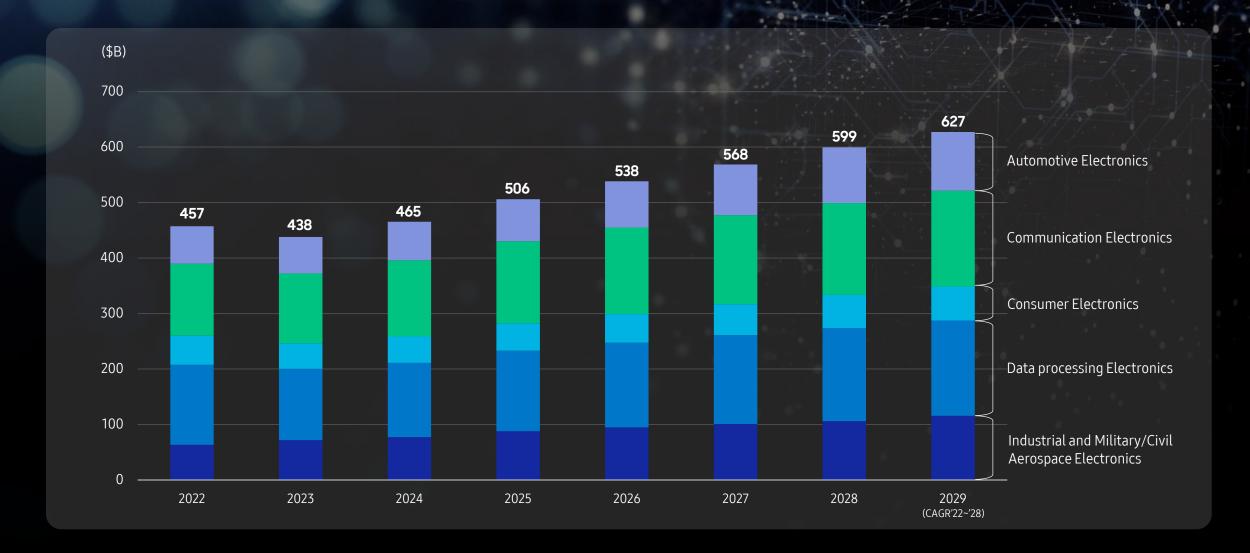






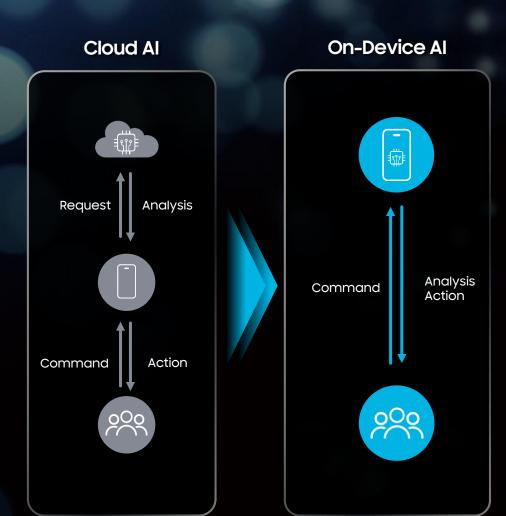
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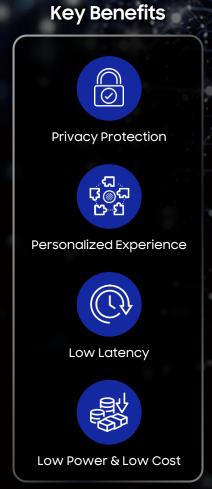
**Business Update Market Opportunities** Samsung Strategy Key Takeaways

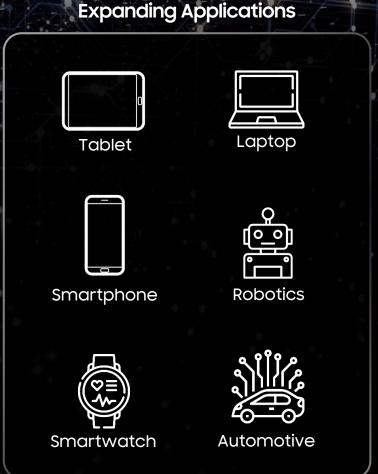


### Enlarging Edge of On-device Al

On-device Al's strengths spread to a wide range of applications



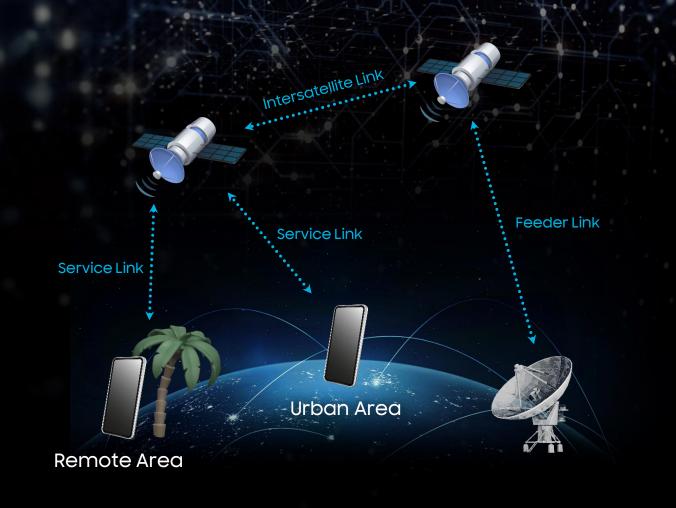




### **Extending Connectivity beyond Terrestrial**

Uninterrupted connectivity without blind spot with non-terrestrial network





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### SAMSUNG

### Growing Needs for Advanced Mobile Photography

Sophisticated development in mobile image sensor for pro-grade quality of mobile camera



### SAMSUNG **Emerging Markets of New Applications** Rising demand for specialized sensors for a variety of devices Touch Camera Sensor Image Sensor **RGB** ToF Sensor Sensor **Distance** RGB Sensor Sensor Tracking **Temperature** Sensor Sensor Global **Shutter** Sensor

### Emphasizing Visual Experience across Devices

Diversified needs for display driver IC in varied form factors



**OLEDos Solution** 

Real OLED Solution

Low Power Design

Higher Frequency



Better Image Reproduction on Displays

### Explosive Expansion of AI and its Applications

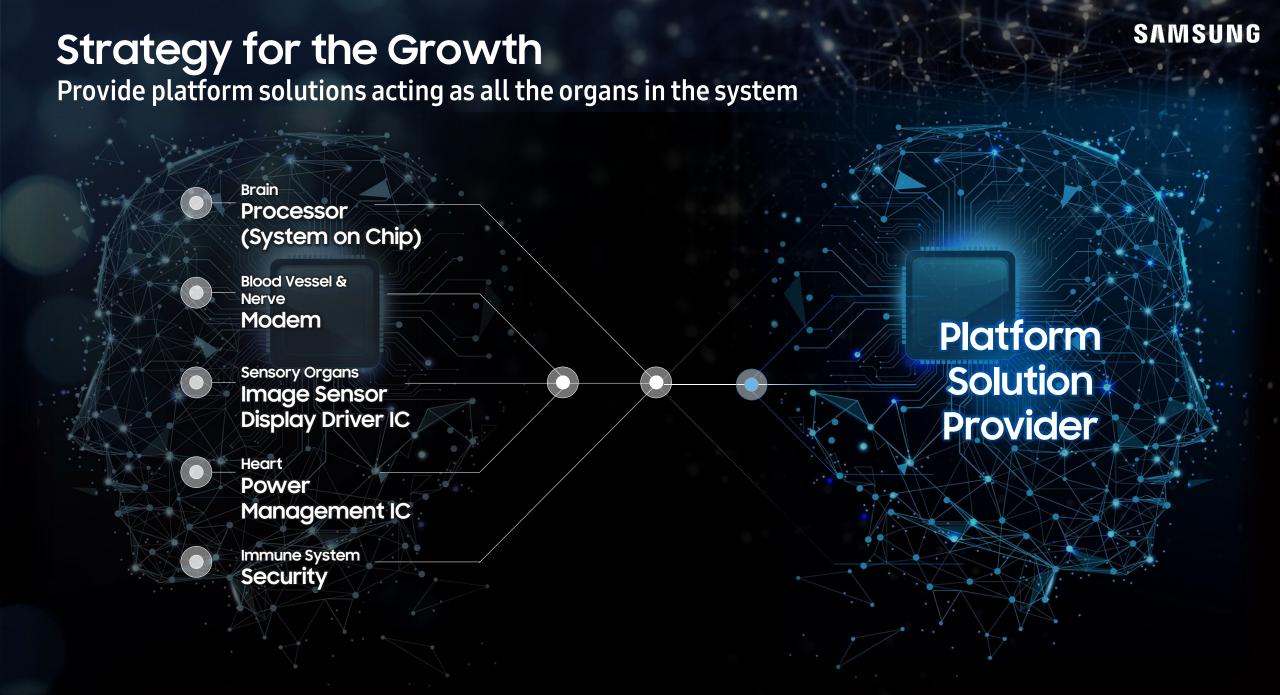
Rising importance of power and security solutions for sustainable Al

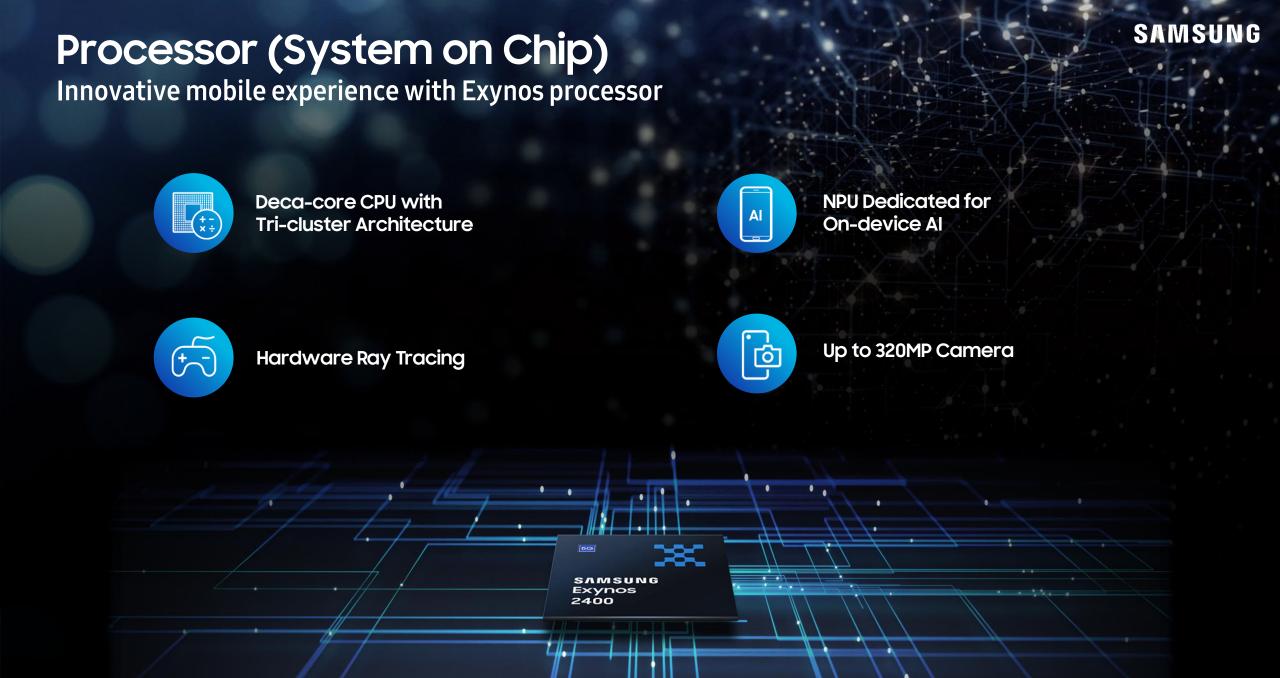




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**Business Update Market Opportunities** Samsung Strategy Key Takeaways





### **Modem & Connectivity**

Swift and seamless 5G connectivity with Exynos modem



3GPP Release 17

The first to FR1-only 11.2Gbps\*

Dual support of NB-IoT NTN & 5G NR NTN

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4nm EUV process for power efficiency

\* As determined by industry public announcement dates.

Improving both mobile camera experience and machine vision with ISOCELL

#### **Al-integrated Solution for 200MP Sensors**

#### **ISOCELL Zoom Anyplace**

Integrated AI solutions of video and image capture utilizing 200MP image sensor.





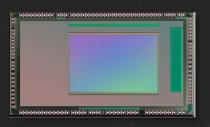


▲ Zoom-in mode

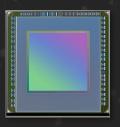
### New Product Lineup for Machine Vision

#### **ISOCELL Vizion™**

New sensor product lineup for machine vision, perceiving 3D information such as distance and motion



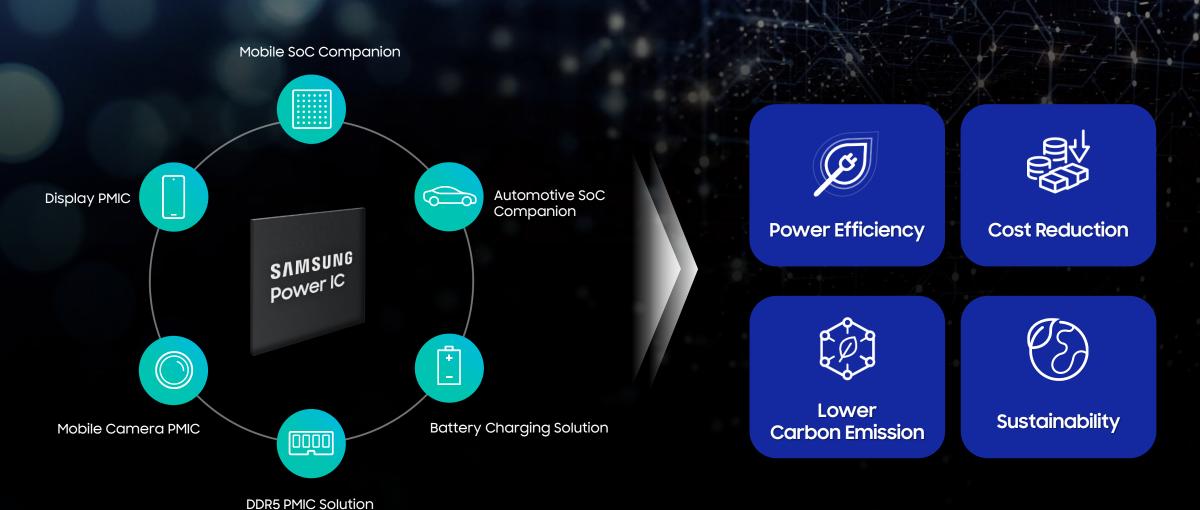
▲ ToF Sensor



▲ Global Shutter Sensor

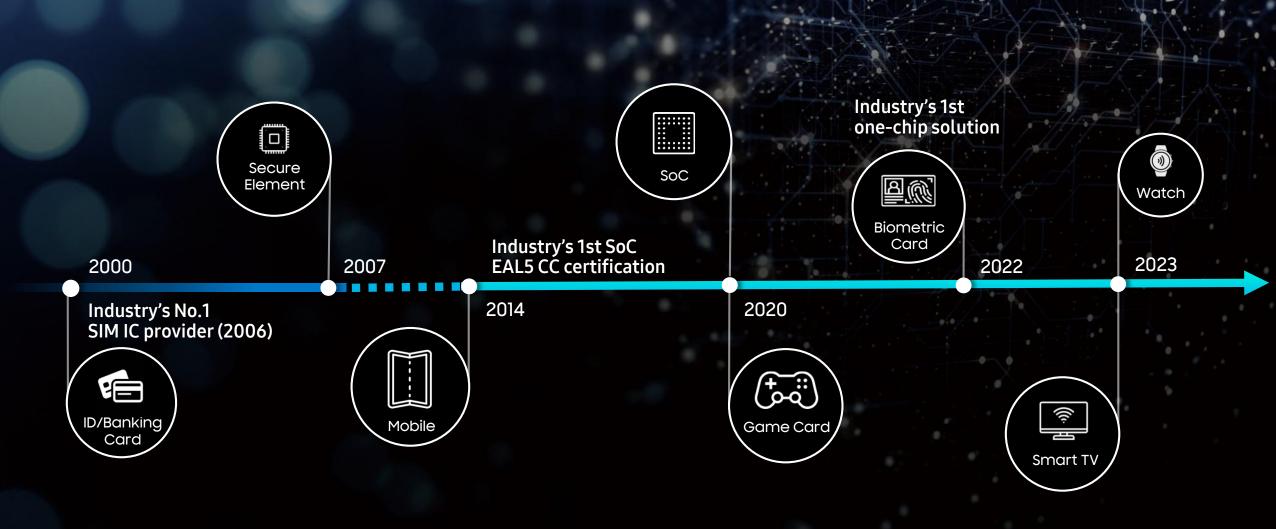
### Power Management IC

Comprehensive power solution for improved power efficiency of diverse applications



### **Security Solution**

Protecting privacy and safety across the various platforms



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### Samsung Solutions for Mobile Platform

### SAMSUNG

#### **ISOCELL Image Sensor**

Mobile image sensor ToF sensor

#### **Exynos Processor**

Mobile SoC LTE/5G modem RF ICs, UWB

#### Power Management IC

SoC PMIC eMMC / UFS PMIC OLED display PMIC Wireless charging IC



#### SIM / NFC / Secure Element

SIM & NFC chip for mobile payment iSE, iSIM

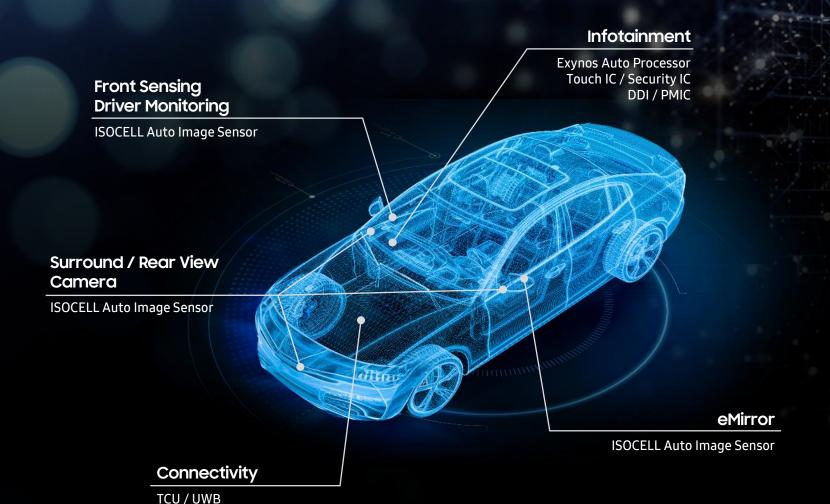
#### **Display Driver IC**

Mobile DDI

- Timing controller
- Source driver
- Gate driver

OLED touch-embedded DDI

### Samsung Solutions for Auto Platform



#### **Exynos Auto**

Auto SoC TCU, UWB

#### **ISOCELL Auto**

Automotive image sensor

#### **Security Solutions**

Security solutions for auto systems & personal information

#### Display Driver IC

DDI, Touch controllers

### Samsung Solutions for Robot Platform

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#### **Exynos SIP Module**

Robot SoC PMIC for SoC

#### **ISOCELL Image Sensor**

ToF sensor Global shutter sensor

#### **Modem & Connectivity**

LTE/5G modem RF ICs, UWB



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Business Update
Market Opportunities
Samsung Strategy
Key Takeaways

### Key Takeaways

- ✓ Offering a platform solution based on a comprehensive product portfolio
- ✓ Pioneering advancements in on-device AI with AI dedicated NPU
- ✓ Elevating user experiences across applications with innovative SoC and image sensors
- ✓ Empowering AI solutions with power & security solutions for various applications

## SAMSUNG