

Solid State System (3S)

鑫創科技：3259



**2023  
Investor Conference**

2023/12/19

# Agenda

- ▣ Company Introduction
- ▣ Business Overview
- ▣ Q&A

# Safe Harbor Statement

Except for historical information contained herein, the matters set forth in this presentation are forward looking statements that are subject to risks and uncertainties that could cause actual results to differ materially, including the impact of competitive products and pricing, timely design acceptance by our customers, timely introduction of new technologies, ability to ramp new products into volume, industry wide shifts in supply and demand for semiconductor products, industry overcapacity, availability of manufacturing capacity, financial stability in end markets, and other risks.

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# 3S Company Profile

- **Company Name** : Solid State System Co., Ltd.
- **Establish** : Nov. 1998
- **Chairman** : Jeffrey Lin
- **IPO Date** : Dec. 2007 (TPEX: 3259)
- **Headquarters** : Tai Yuen Hi-Tech Industrial Park, Hsinchu, Taiwan
- **Other Offices** : Shenzhen China
- **Employees** : 120



# NAND Flash Controller IC

## USB 3.2 Gen I Ctr. IC



## SSD Solution



# 3S Advantages for NAND Flash Controller

- 25-year experience and record in delivering NAND flash controller turn-key solution from SLC, MLC, TLC to 3D NAND TLC, QLC.
- NAND flash knowhow in-depth. The only one NAND controller maker who had developed NAND interface SONOS cell flash memory.
- Broad expertise from device to system solution.

# USB AUDIO IC

## Product Type with USB AUDIO IC

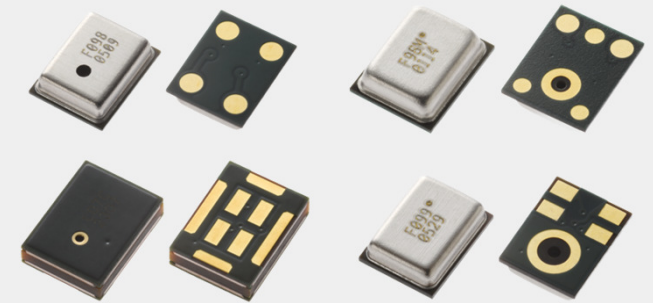




# 3S Advantages for USB Audio Controller

- 14-year experience and record in delivering USB Audio Controller.
- Audio knowhow in-depth with Application Software Support.
- Dedicated FAE at Shenzhen Office for Quick Customer Support.

# MEMS Mic Product Features

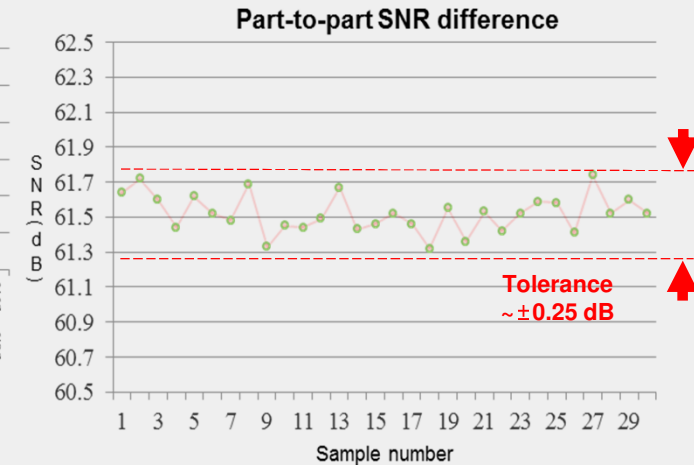
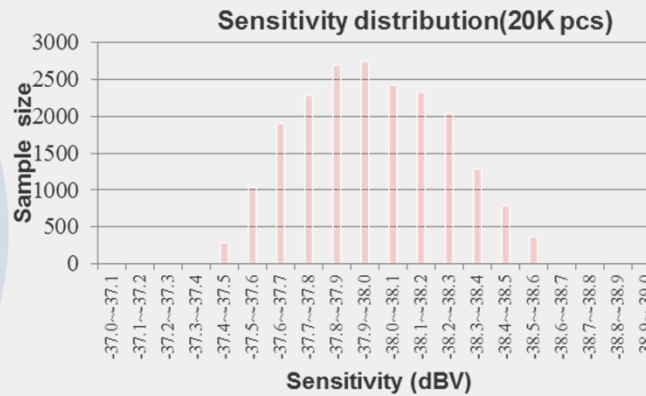
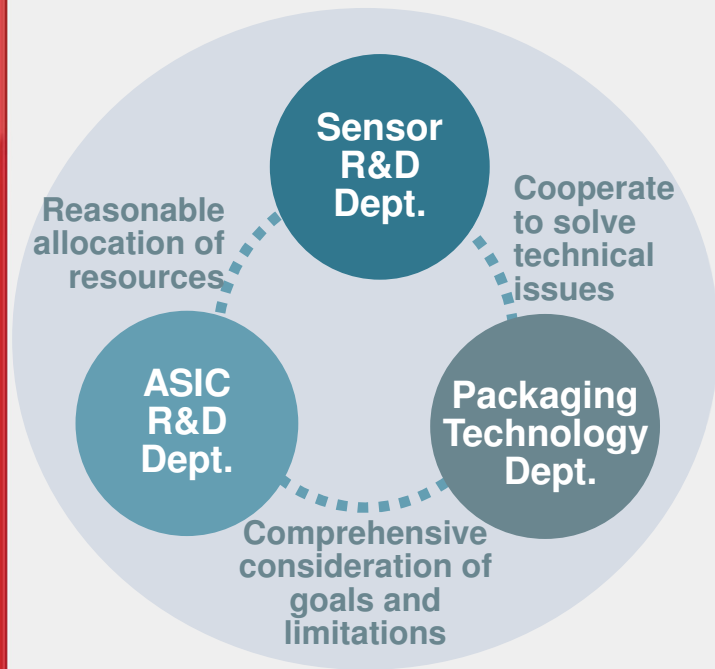


- **R&D Strength:** A complete MEMS Mic R&D team including Sensor, ASIC and Package technology. With 30+ years experience, masters the key know-how and knowledge in MEMS structure, mix mode circuits and acoustic characteristics.
- **Patent Protection :** Patents cover from chip, packaging to testing of MEMS microphone technology.
- **Own Chips:** Self designed and taped out of MEMS sensor & pre-amp ASIC.
- **100% Testing:** In-house developed testers with high accuracy trimming process to make sure product consistency.
- **Application-oriented:** Developing different application' s MEMS sensors and ASIC base on chip portfolio to meet various requirements.
- **Supporting:** FAE team provides professional on-site support from design stage to production stage worldwide.

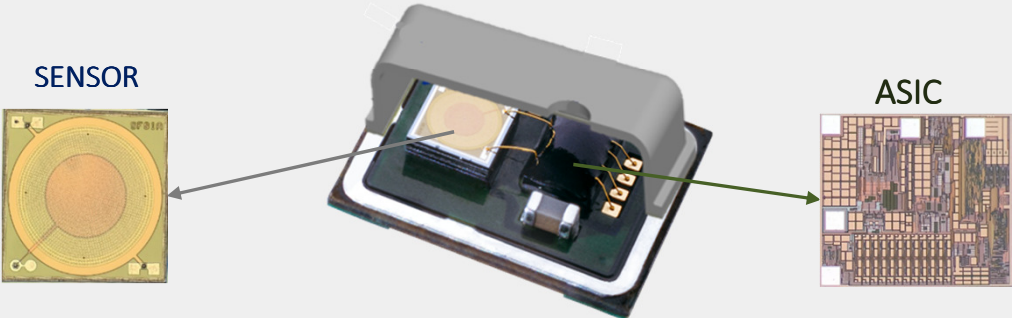
# All Series MEMS Microphone Provider – 3S

A Complete MEMS Mic R&D Team

High Product Consistency



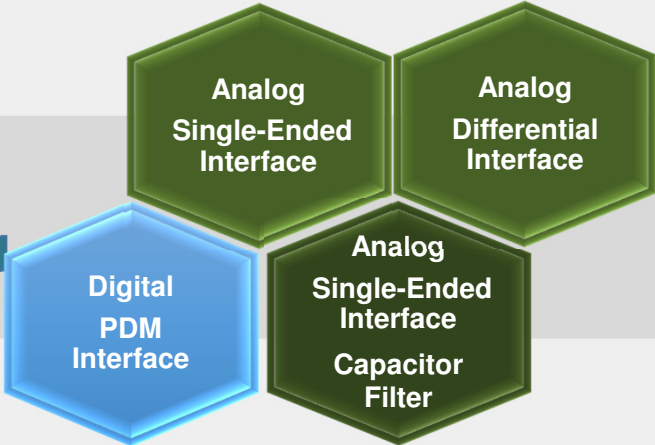
# All Series MEMS Microphone Provider – 3S



## Sensor Types



## ASIC Types

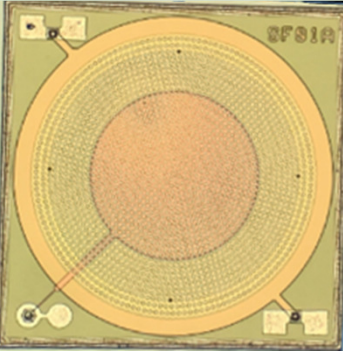
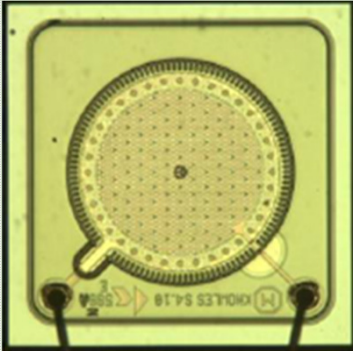


# MEMS-High specification product progress

Series	Product	
Analog MEMS Microphone	SPM 4737 Bottom Port SNR 70dB (2023/Q1 MP)	
Differential Interface	SPA 3325 Bottom Port SNR 65dB (2022/Q4 MP)	
Digital MEMS Microphone	SPG 4020 Top Port SNR 67dB (2024/Q1 Sample)	SPH 3526 Bottom Port SNR 67dB (2024/Q1 Sample)

# 3S Patent Introduction

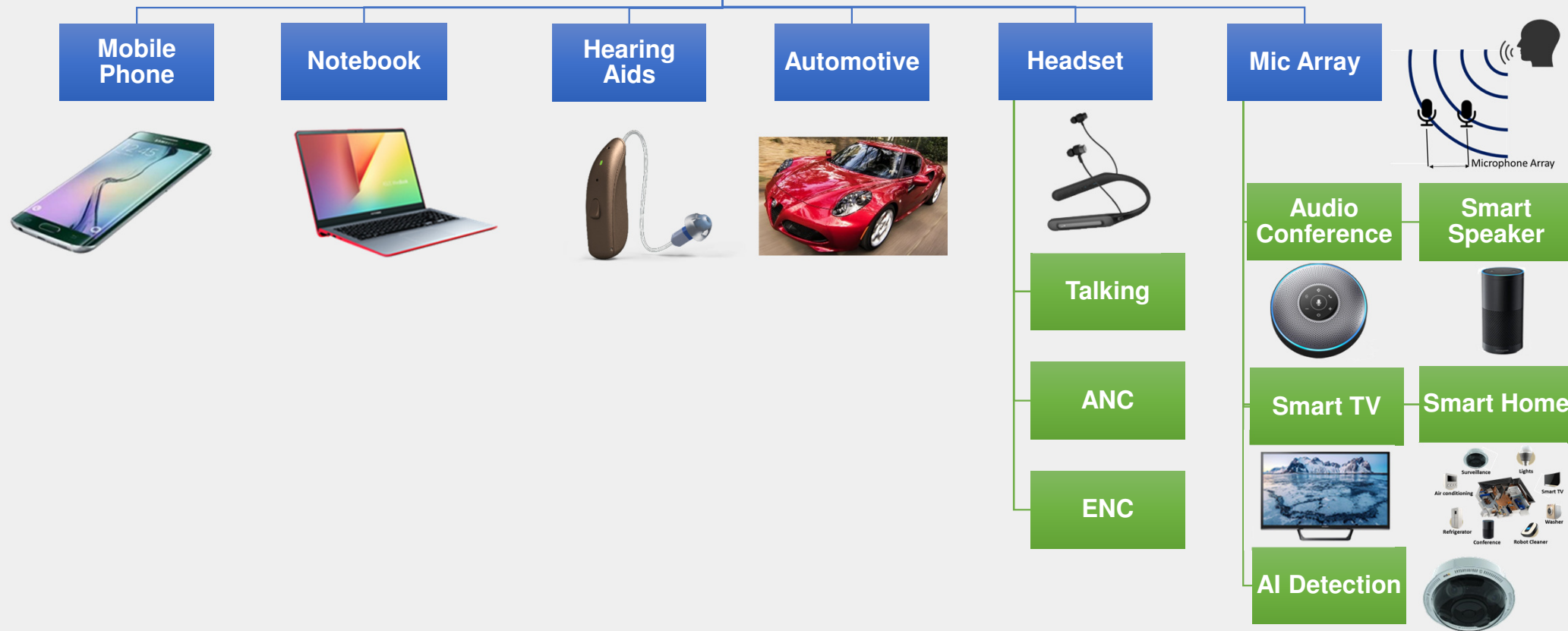
- Own IP, Own IC, Own Patents
- 3S MEMS patent differs from Knowles

3S' patented MEMS structure	Knowles' patented MEMS structure
<p data-bbox="360 775 624 810">US08093119B2</p>  Micrograph showing a circular MEMS structure with a central circular area and concentric rings of microstructures. The label '2F31A' is visible in the top right corner.	<p data-bbox="898 775 1162 810">US06535460B2</p>  Micrograph showing a circular MEMS structure with a central circular area and concentric rings of microstructures. The label 'M) 04055 54.18' is visible in the bottom right corner.



# 3S Field of Product Application

## 3S Product Application



# Main Customer

**SKYWORTH** **KTC** **ANKER** **STAR-NET** **星网锐捷** **ABB** **muyuan** 牧原 **EZVIZ** 萤石 **DNAKE** 狄耐克 **阿尔法蛋** ALPHA EGG  
**广汽集团** GAC GROUP **长安汽车** **GEELY** **DFSK** **CHERY** 长城汽车 **上汽大通** MAXUS **东风柳汽** **SHACMAN**



**Japan**

**HONDA** **SUBARU**

**Clarion** **DAIHATSU**

**Panasonic**

**audio-technica**

**Korea**

**SAMSUNG**

**KOCOM**

**America**

**Skullcandy** **JLAB**

**HARMAN** A SAMSUNG COMPANY **JBL** by HARMAN

**MASTER & DYNAMIC**

**Europe**

**PHILIPS**

**KEF** INNOVATORS IN SOUND

**zoundustries**

**hmd.** The Home of Nokia Phones

**India**

**boAt**

**Taiwan**

**msi** **LUXGEN**

**Solid State System**



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# Consolidated Balance Sheet

NT\$K

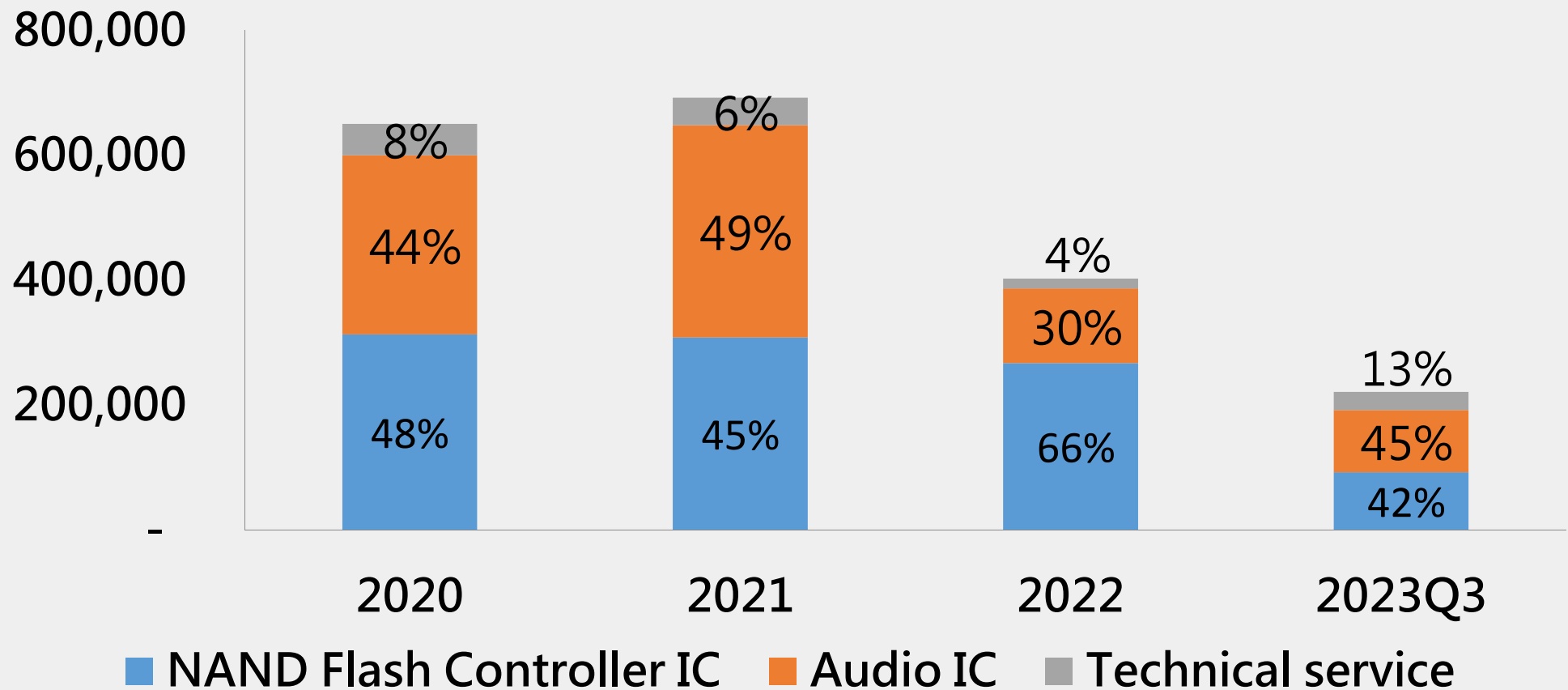
	2020	2021	2022	2023Q3
<b>Current Assets</b>	<b>359,630</b>	<b>596,135</b>	<b>518,842</b>	<b>394,163</b>
Cash and Cash Equivalents	94,242	171,771	65,952	43,901
Accounts Receivable	63,054	80,417	54,234	34,884
Inventory	191,348	334,848	390,453	299,047
Other Current Assets	10,986	9,099	8,203	16,331
<b>Non-current Assets</b>	<b>197,178</b>	<b>168,219</b>	<b>110,948</b>	<b>78,882</b>
<b>Total Assets</b>	<b>556,808</b>	<b>764,354</b>	<b>629,790</b>	<b>473,045</b>
<b>Total Liabilities</b>	<b>184,673</b>	<b>113,548</b>	<b>132,131</b>	<b>119,877</b>
<b>Common stock</b>	<b>646,877</b>	<b>746,877</b>	<b>746,877</b>	<b>497,659</b>
<b>Total Stockholders' Equity</b>	<b>372,135</b>	<b>650,806</b>	<b>497,659</b>	<b>353,168</b>
<b>Book value per share</b>	<b>5.75</b>	<b>8.71</b>	<b>6.66</b>	<b>7.10</b>

# Consolidated Statements of Comprehensive Income

NT\$K

	2020	2021	2022	2023Q3
Sales	650,504	692,352	402,605	221,159
Gross Profit	146,116	229,488	116,429	33,463
Gross margin(%)	22	33	29	15
Selling Expenses	77,008	65,500	67,713	46,046
G&A Expenses	39,198	31,670	35,932	32,167
R&D Expenses	170,205	135,756	133,920	100,502
Operating Income	(140,295)	(3,438)	(121,136)	(89,037)
Non-operating Income& Exp.	66,592	4,759	(5,558)	761
Income Before Tax	(73,703)	1,321	(126,694)	(144,491)
Net Income	(78,355)	1,158	(156,550)	(144,491)
EPS(NT\$)	(0.21)	0.02	(2.10)	(2.90)

# Revenue by Product



# Future Prospect

- Continue developing NAND Flash Controller and value-add application solutions.
- Expanding MEMS Mic market share and enter high performance oriented main stream market.
- Continue developing Audio IC products to secure existing market and customers, and expanding applications.

*Thank You*



[www.3system.com.tw](http://www.3system.com.tw)