



SUNPLUS

2Q 2023 Investor Conference

Spokesman: Joseph Chuang
Tel: 886-3-5786005 ext.3120
E-mail: joseph@sunplus.com

Make difference

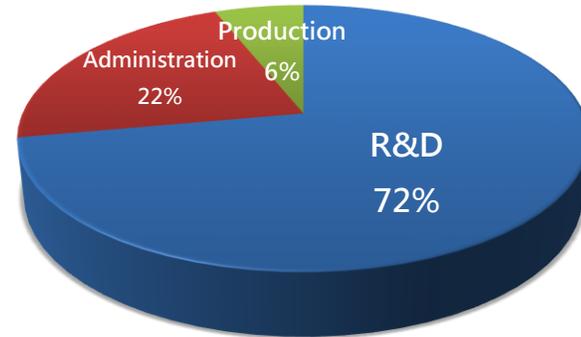
Sunplus Affiliates

	Profession	Shareholding	Stock code
 SUNPLUS	Sunplus Technology Co., Ltd. (592m shares) Automotive IC & IP Design	100%	TWSE#2401
	Generalplus Technology Co., Ltd. (109m shares) Speech/Music, LCD, Digital Video & Image SoC Turnkey Solutions, Micro-Controllers	48%	TWSE#4952
	Sunplus Innovation Technology Inc. (59m shares) Web Cam & HID Control IC	57%	TWSE#5236
	Sunext Technology Co., Ltd. (64m shares) ODD & Motor Drive IC	100%	
	Jumplux Technology Inc. (24m shares) Automotive MCU & USB Storage ASIC	97%	

* Based on 2023/6/30 Consolidated-holding by Sunplus

Human Resources

Global Employees

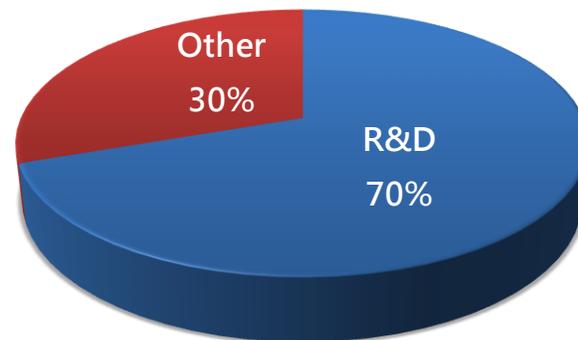


Global Employees/ R&D

1,094 / 789

40% Master above

Sunplus HR



Sunplus HR/ R&D

346 / 241

63% Master above

* Data by 2023/6/30

Q2 Consolidated Results

(NT\$ million)	2023 2Q		2023 1Q		2022 2Q		QoQ	YoY
Net Sales	1,418	100%	1,194	100%	1,985	100%	19%	(29%)
COGS	750	53%	628	53%	951	48%	19%	(21%)
Gross Margin	669	47%	565	47%	1,034	52%	18%	(35%)
Operating Expenses	710	38%	885	40%	762	28%	11%	(2%)
Operating Net Profit (Loss)	(42)	(3%)	(89)	(7%)	262	13%	(53%)	(116%)
Non-Op. Gain (Loss)	65	5%	53	4%	(66)	(3%)	22%	(199%)
Net Income (Loss)	(2)	(0%)	(49)	(4%)	119	6%	(96%)	(102%)
Other Comprehensive Income	(65)	(5%)	63	5%	(68)	(3%)	(205%)	(4%)
Total Comprehensive Income	(67)	(5%)	14	1%	50	3%	(592%)	(234%)
Net Profit Attributable To								
Shareholders of the parent	(83)	(6%)	(92)	(8%)	(44)	(2%)	(10%)	88%
Non-controlling interests	81	6%	43	4%	163	8%	88%	(50%)
EPS (NT\$)	(0.14)		(0.16)		(0.08)			

** EPS based on outstanding 591,994,919 shares on 2022/06/30

1H Consolidated Results

(NT\$ million)	2023 1H		2022 1H		YoY
Net Sales	2,612	100%	4,099	100%	(36%)
COGS	1,378	53%	1,911	47%	(28%)
Gross Margin	1,234	47%	2,188	53%	(44%)
R&D Expenses	1,016	39%	1,170	29%	(13%)
SG&A Expenses	348	13%	487	12%	(29%)
Operating Net Profit (Loss)	(130)	(5%)	531	13%	(125%)
Non-Op. Gain (Loss)	118	5%	297	7%	(60%)
Net Income (Loss)	(51)	(2%)	668	16%	(108%)
Other Comprehensive Income	(3)	(0%)	47	1%	(106%)
Total Comprehensive Income	(54)	(2%)	716	17%	(107%)
Net Profit Attributable To					
Shareholders of the parent	(175)	(7%)	327	8%	(154%)
Non-controlling interests	124	5%	342	8%	(64%)
EPS (NT\$)	(0.30)		0.56		

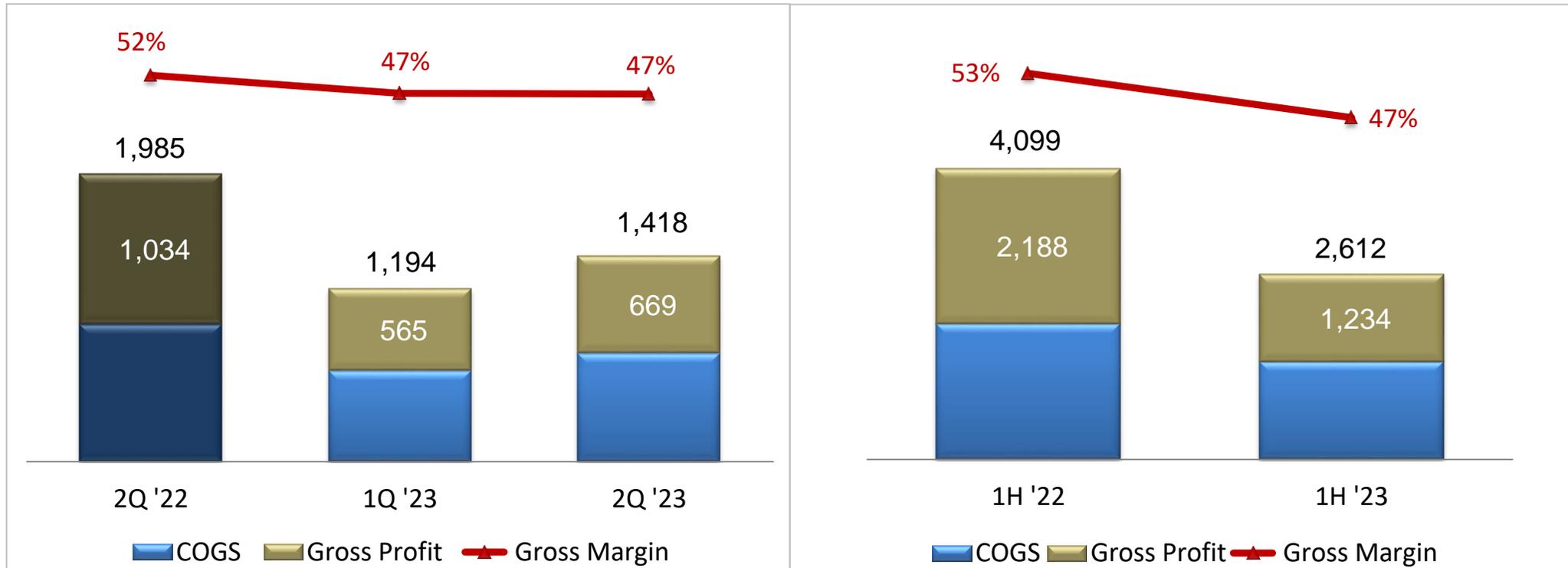
** EPS based on outstanding 591,994,919 shares on 2022/06/30

Consolidated Net Sales & Gross Profit

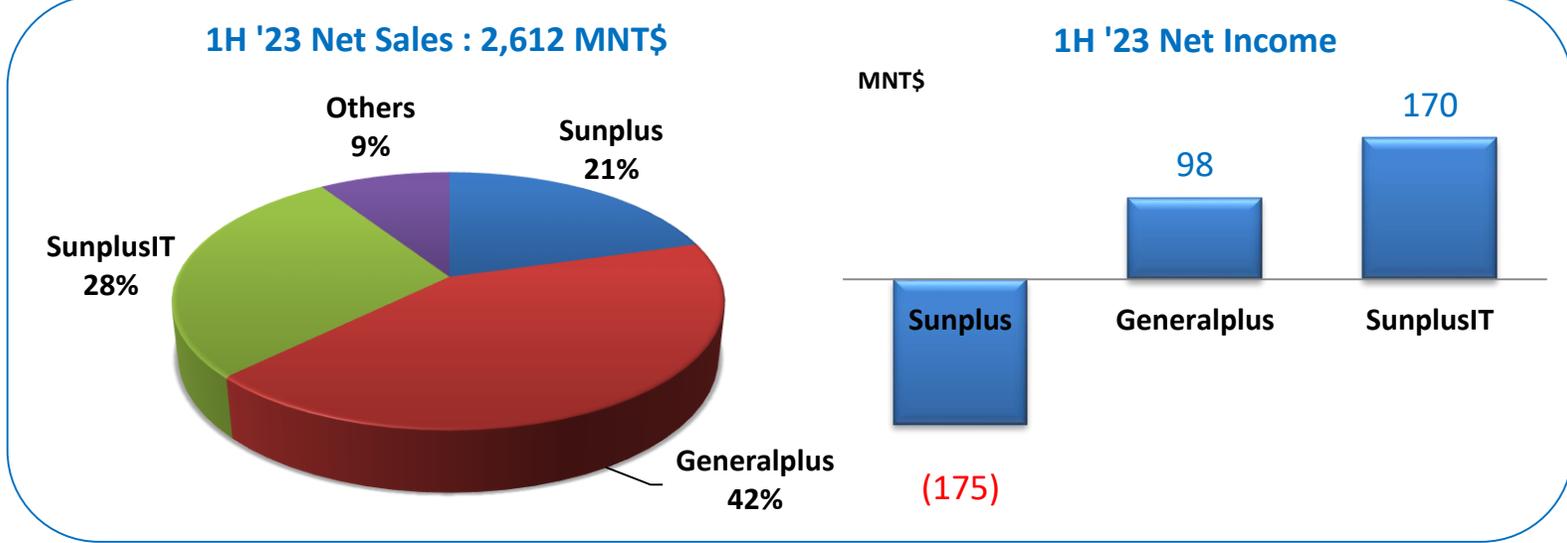
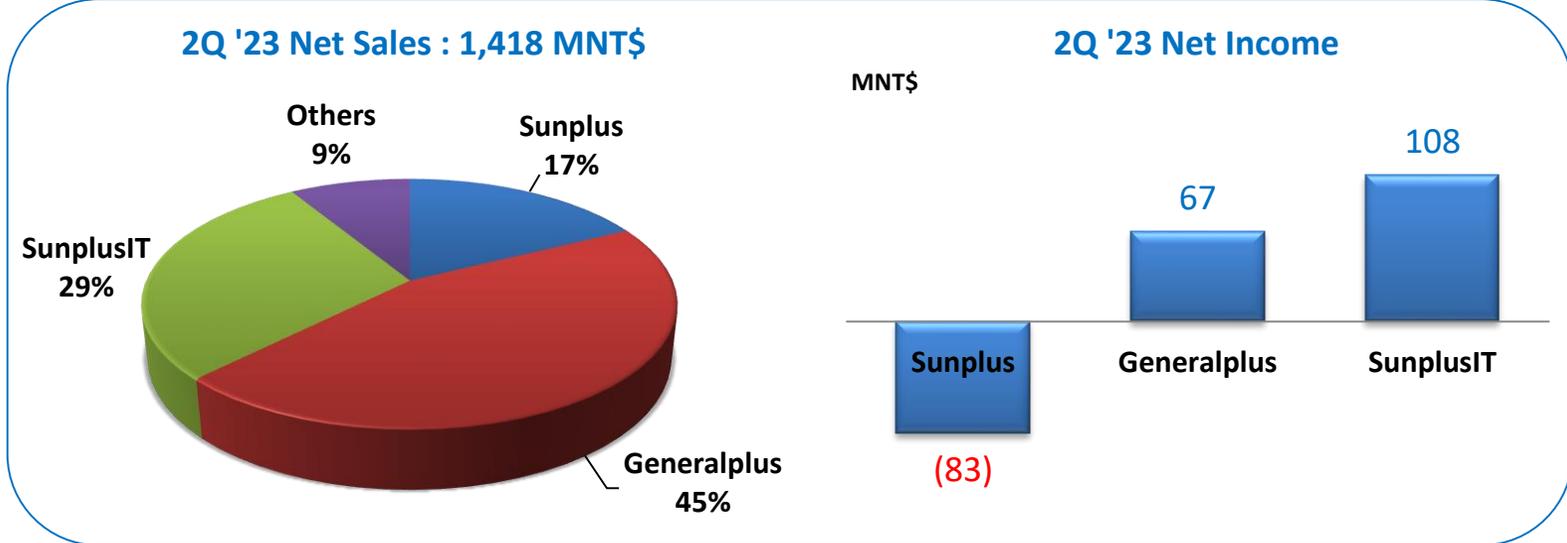
NT\$ million

← GP YoY: -35% →
 ← GP QoQ: +18% →

← GP YoY: -44% →



2023 Affiliates' Contribution



Q2 Consolidated Balance Sheet

(NT\$ million)	<u>2023 2Q</u>	<u>2023 1Q</u>	<u>2022 2Q</u>	<u>QoQ</u>	<u>YoY</u>
Total Assets	14,943	14,720	16,637	2%	(10%)
Cash and Cash equivalents	3,895	4,116	4,577	(5%)	(15%)
Financial asset at fair value through profit or loss - current	1,763	1,050	1,778	68%	(1%)
Inventory	1,774	2,009	1,973	(12%)	(10%)
Equity Method Investments	937	911	931	3%	1%
Financial asset at fair value through profit or loss - non-current	1,516	1,573	1,727	(4%)	(12%)
Total Liabilities	4,052	3,138	5,032	29%	(19%)
S-T Bank Loans	274	194	138	41%	99%
Account Payable	275	218	652	26%	(58%)
Other current liabilities	1,623	845	2,937	92%	(45%)
Total Shareholder Equity	10,891	11,582	11,605	(6%)	(6%)
ROE%	(0.47%)	(0.42%)	11.52%		
Net Asset Value per Share (NT\$)	14.85	15.69	15.68		

Cash Flows

(NT\$ million)	<u>2023 2Q</u>	<u>2023 1Q</u>	<u>2022 2Q</u>	<u>QoQ</u>	<u>YoY</u>
From Operation	420	(154)	236	(373%)	78%
From Investment	(719)	(438)	(71)	64%	908%
From Financing	75	281	67	(73%)	11%
<u>Net Cash Flow in (out)</u>	<u>(221)</u>	<u>(312)</u>	<u>241</u>	<u>(29%)</u>	<u>(192%)</u>
<u>Cash and Cash equivalents</u>	<u>3,895</u>	<u>4,116</u>	<u>4,577</u>	<u>(5%)</u>	<u>(15%)</u>

(NT\$ million)	<u>2023 1H</u>	<u>2022 1H</u>	<u>YoY</u>
From Operation	266	(217)	(222%)
From Investment	(1,156)	(58)	1882%
From Financing	355	(5)	(7856%)
<u>Net Cash Flow in (out)</u>	<u>(533)</u>	<u>(259)</u>	<u>106%</u>
<u>Cash and Cash equivalents</u>	<u>3,895</u>	<u>4,577</u>	<u>(15%)</u>

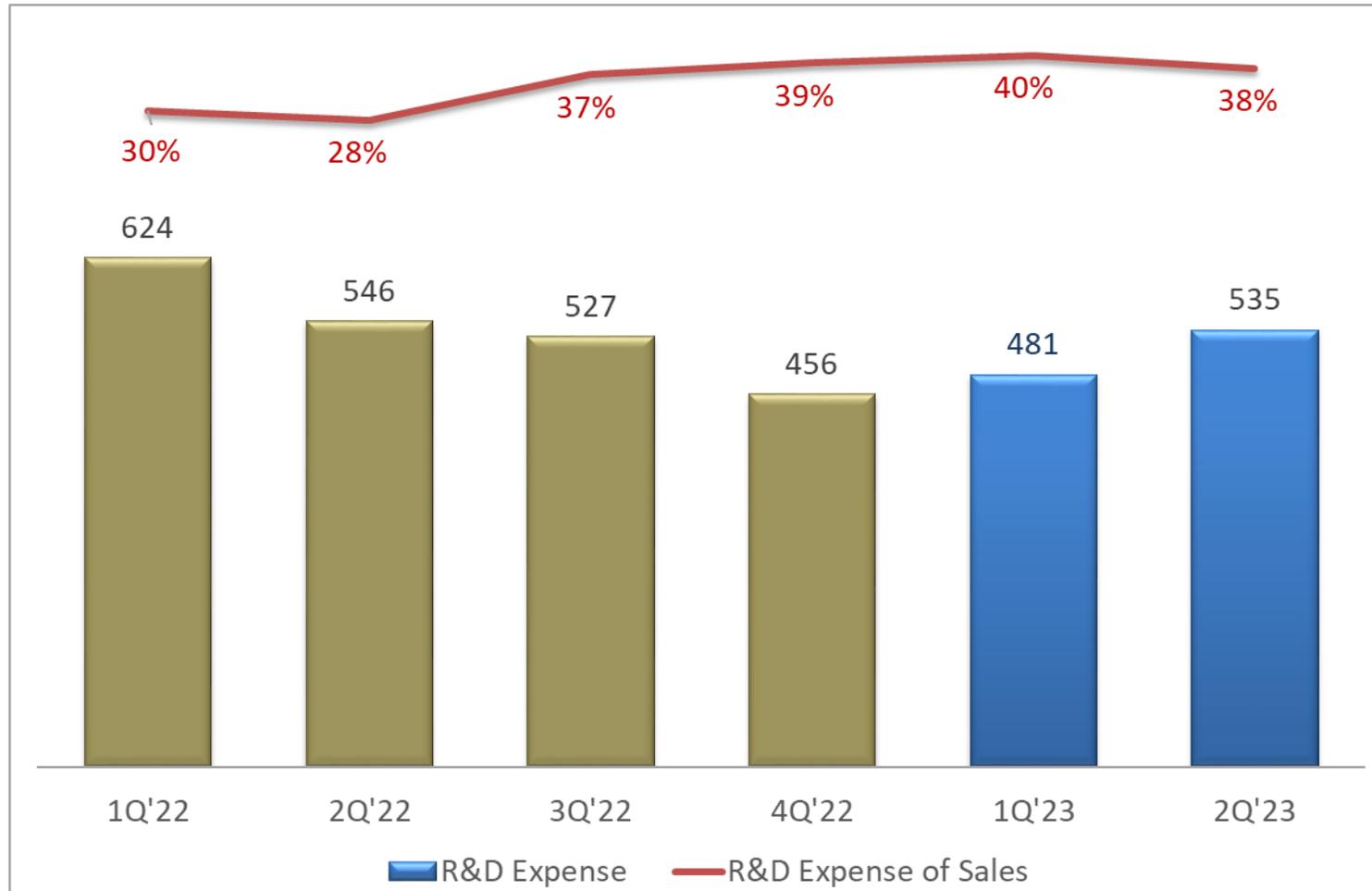
Non-Operating Gain

(NT\$ million)	<u>2023 2Q</u>	<u>2023 1Q</u>	<u>2022 2Q</u>	<u>QoQ</u>	<u>YoY</u>
Other Income	21	11	30	102%	(29%)
Exchange Gain (Loss)	15	(7)	21	(318%)	(25%)
Gains on Financial Assets (Liabilities) at Fair Value through Profit or Loss	25	74	(202)	(66%)	(112%)
Investment Gain Recognized under Equity Method	(6)	(25)	7	(75%)	(189%)
<u>Non-Operating Gain</u>	<u>65</u>	<u>53</u>	<u>(66)</u>	<u>22%</u>	<u>(199%)</u>

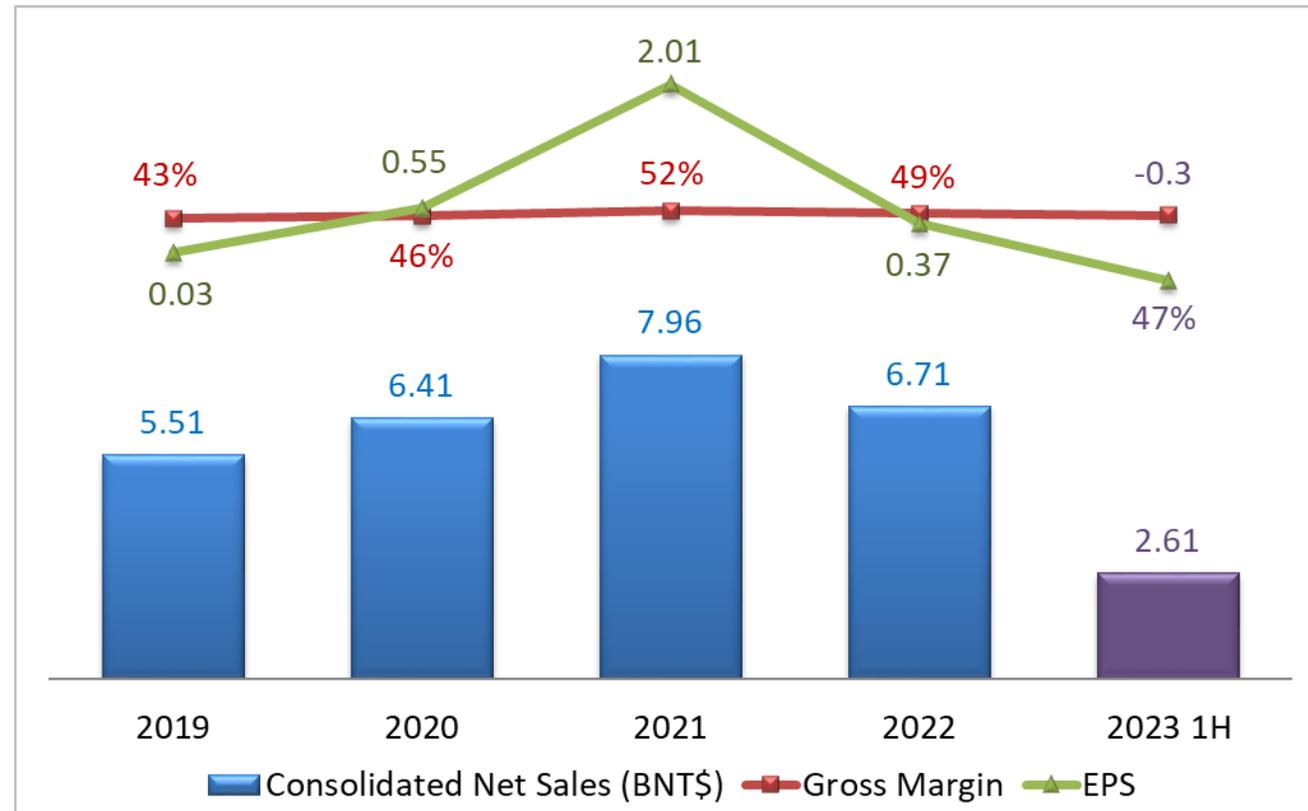
(NT\$ million)	<u>2023 1H</u>	<u>2022 1H</u>	<u>YoY</u>
Other Income	32	70	(54%)
Exchange Gain (Loss)	8	48	(83%)
Gains on Financial Assets (Liabilities) at Fair Value through Profit or Loss	99	(360)	(127%)
Investment Gain Recognized under Equity Method	(32)	8	(485%)
Disposal of investment interests under equity method	0	449	(100%)
<u>Non-Operating Gain</u>	<u>118</u>	<u>297</u>	<u>(60%)</u>

R&D Expenses

NT\$ million



Financial Statement



Automotive

Inside and Around the Cockpit



Cockpit Electronics

IVI
Display Audio
Cluster
HUD



Automated Driving

AVM
DMS/IMS
ADAS
E-Mirror
APA



In-cabin Acoustics

Spatial Sound
Auto-EQ
EC/NR
ITU-T Lab



Cockpit Electronics

Display Audio

Connects Vehicle to Person (Personal Device)



98%

Availability in the US



79%

US buyers only consider CarPlay-capable vehicles



New CarPlay Features with iOS 16



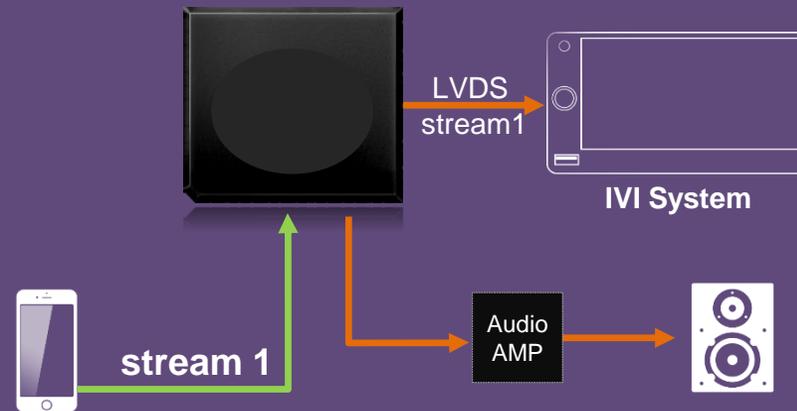
- Larger Screen
- Multiple Display
- Instrument Cluster
- More App Types
- New GUI Widgets

iCockpit Solution



CarPlay Multi-Stream

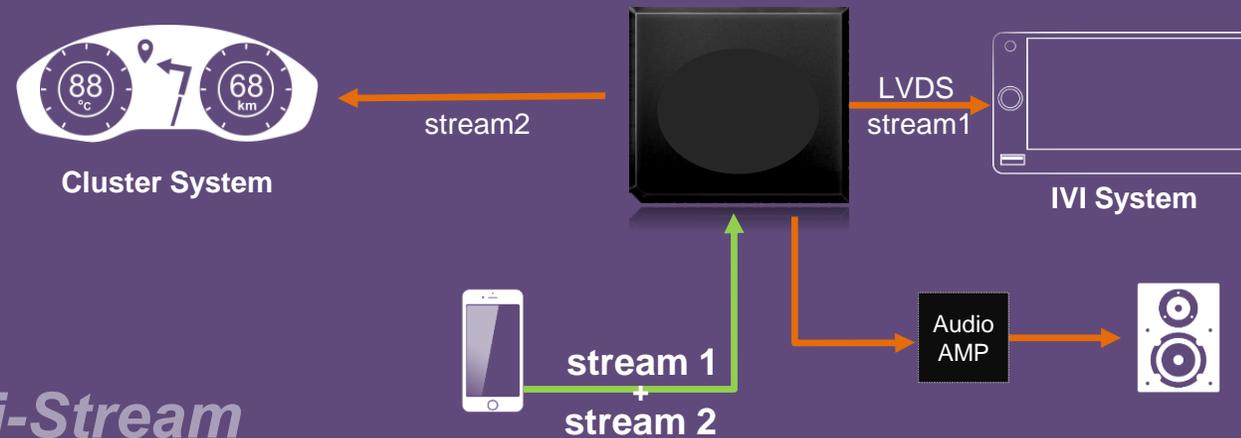
Classic CarPlay



■ Stream 1: CarPlay Functions

- Navigation, Music, Telephony, and Siri, etc.

CarPlay Multi-Stream



CarPlay Multi-Stream

■ Stream 2: Alternative Functions

- Navigation, Sound Effect Spectrum, or Album Info
- To Cluster or HUD

iCockpit: IVI+Cluster



iCockpit : IVI+AVM

Was: IVI & AVM Box



Now: IVI with AVM Built-in



All in One

Cost Saving

iCockpit : IVI+ADAS



Driver ID.



Face
Detection

Face
Recognition

Voice
Recognition



Driver Monitor System
(DMS)



Face
Detection

Driver Distraction / Fatigue
Detection

Voice
Assistant



Automated Driving

ADAS Applications

AVM



AR HUD



APA



E-Mirror/CMS/DMS

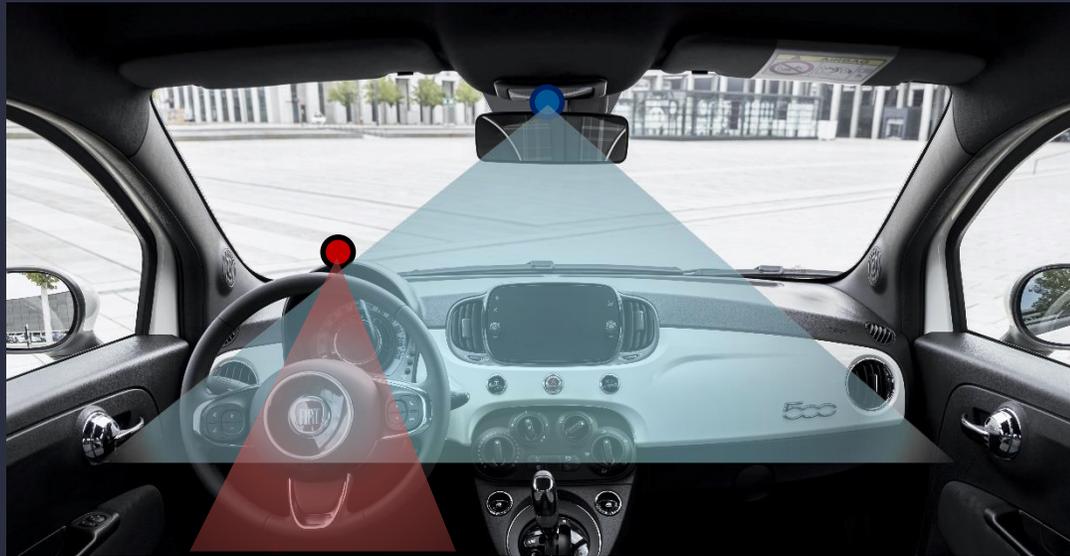


3D AVM



2D AVM、透明底盤與鏡頭校正畫面

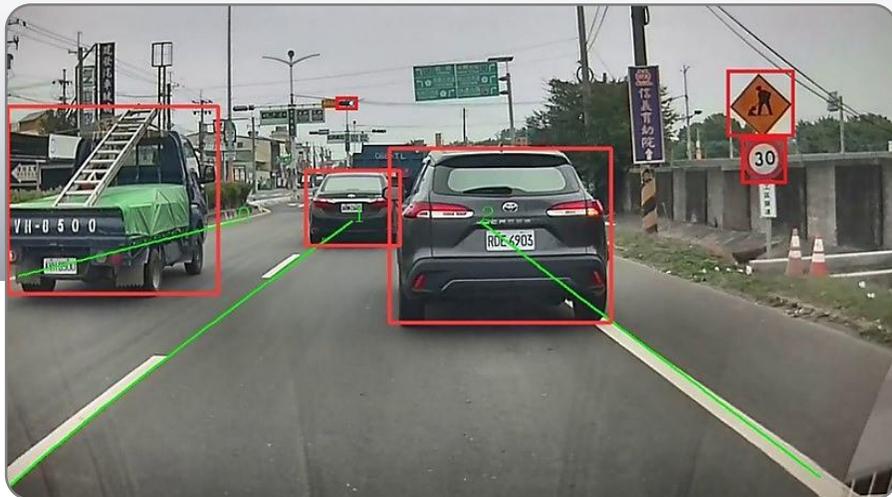
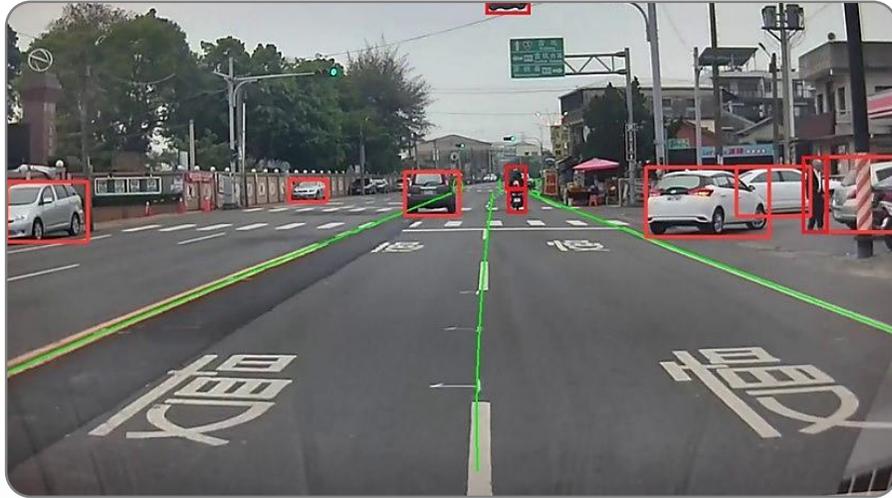
Driver Monitoring System – Vision-based



Driver and Interior Monitoring



Smart Vision Sensors



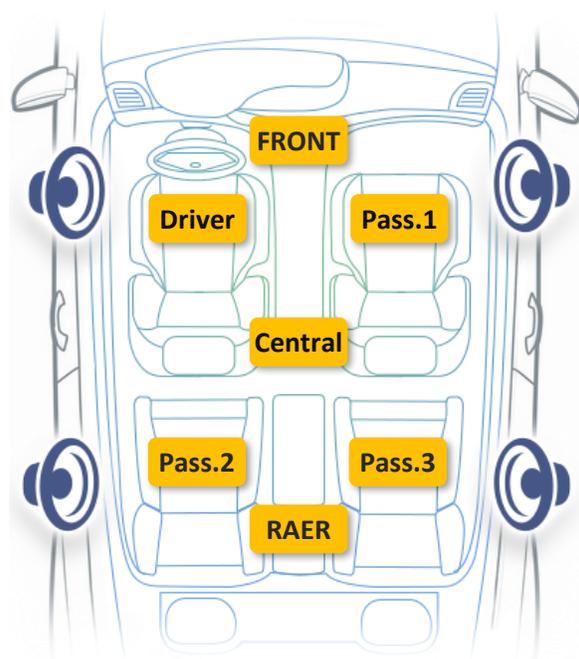
■ 2 FHD camera inputs Detection:

- Motorcycles
- Cars
- Traffic lights
- Traffic signs
- Traffic lanes
- Pedestrians

Immersive Sound

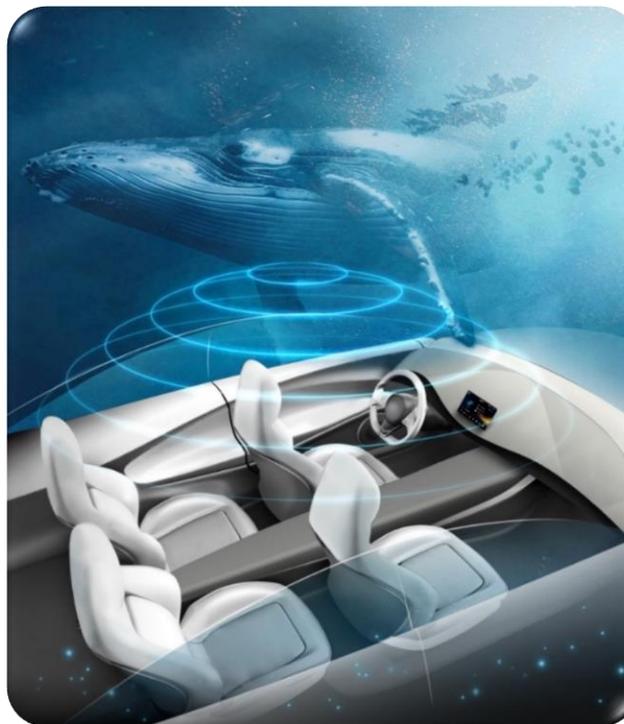
Joy – In-cabin Acoustics

Sound Field with IMS



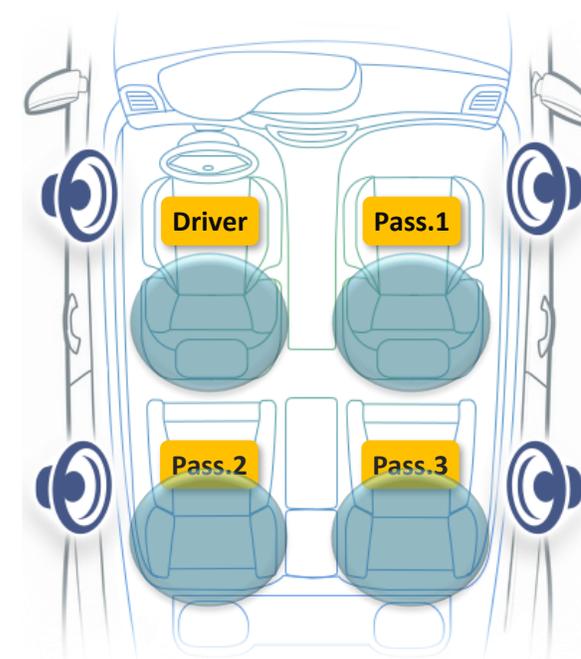
The IMS sees the occupants and feeds the info to IVI for optimal sound field settings.

Immersive Sound



Bringing the 3D surround technology, such as Dolby Atmos™, or Sunplus Spatial Sound to the cabin.

Sound Bubble (w/ ANC)



Giving every occupants a quiet zone, or independent listening zone.

Audio

Audio Solutions

Wireless Connection



Party Speaker



Surround/Woofer Speaker

Speech In



Speakerphone



Video Bar

Speaker Out



Premium Soundbar



Personal Speaker



Gaming Soundbar



Boombox



Karaoke DJ Soundbar

Best Cost-Performance Soundbar Solution

3D Sound Effects

- Dolby ATMOS v1.8
- DTS: X, IMAX enhanced
- MPEG-H
- Sunplus Spatial Sound

AI Sound Classifier

- Advanced AI algorithms accurately classify media content

Room Correction

- Optimize the acoustics of Main Bar, Subwoofer for room

Bluetooth v5.3

- LE Audio, LC3/LC3plus Codecs
- Multi-stream, Broadcast

Sound Tuning Tool

- Powerful GUI tuning tool supports arbitrary sound adjustment

3rd-party Algorithm

- Capable of compatible to customer legacy sound algorithm

Audio Streaming

- + External DTS Play-Fi Module
- + WiFi Module (Airplay-2, Alexa, etc.)



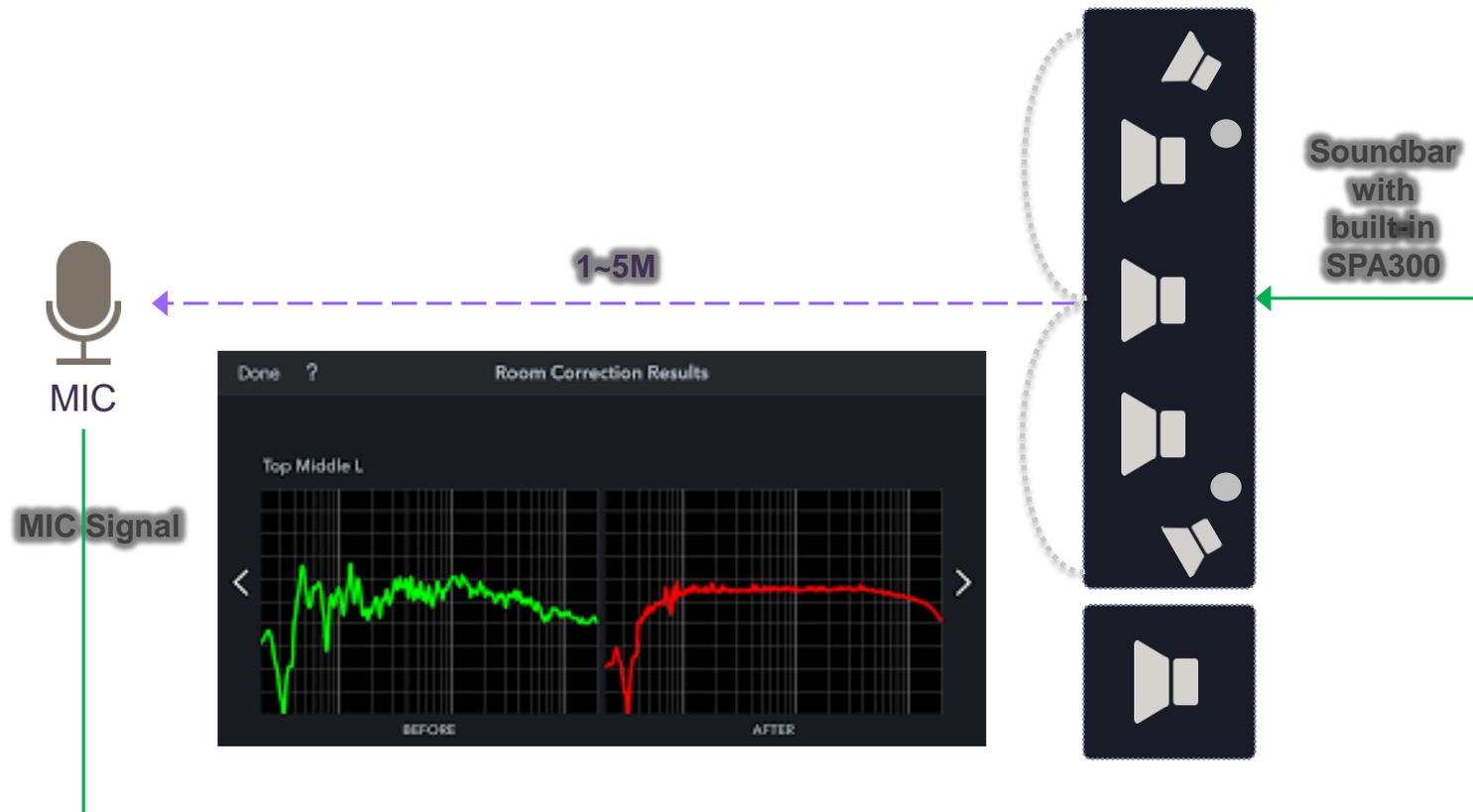
Soundbar

Bridging the gap of Flat-panel HDTV & Home Theater



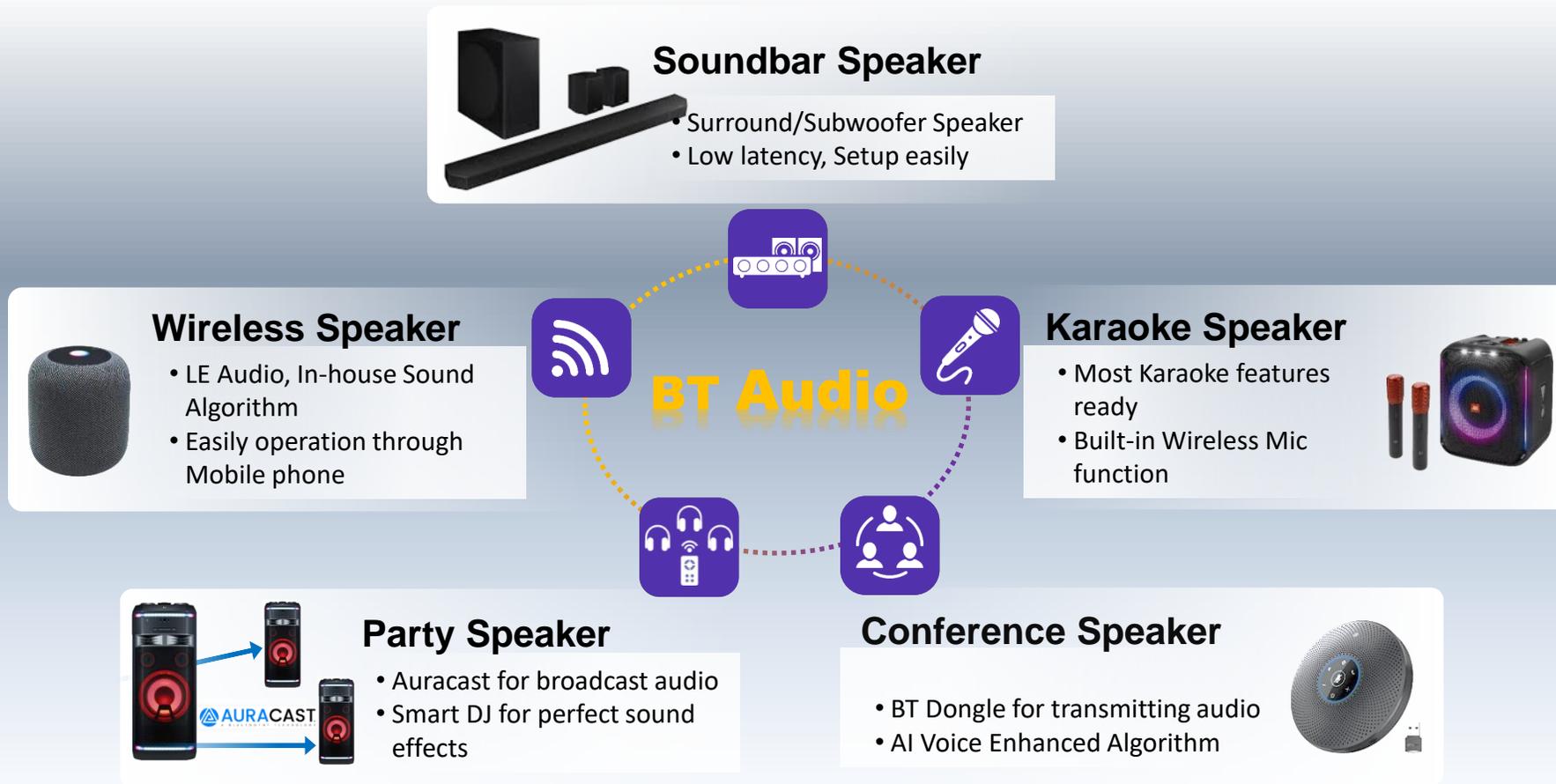
Room Correction

- A real-time DSP technology which automatically compensates and optimizes your room listening environment



Target Market

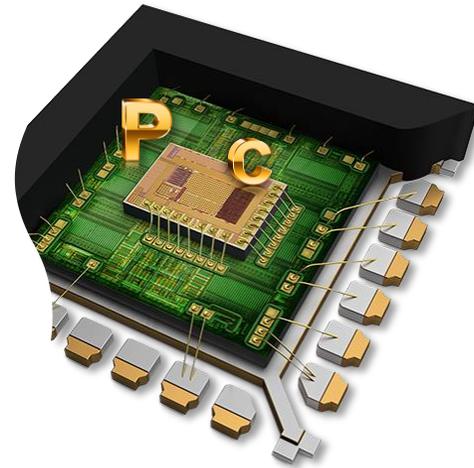
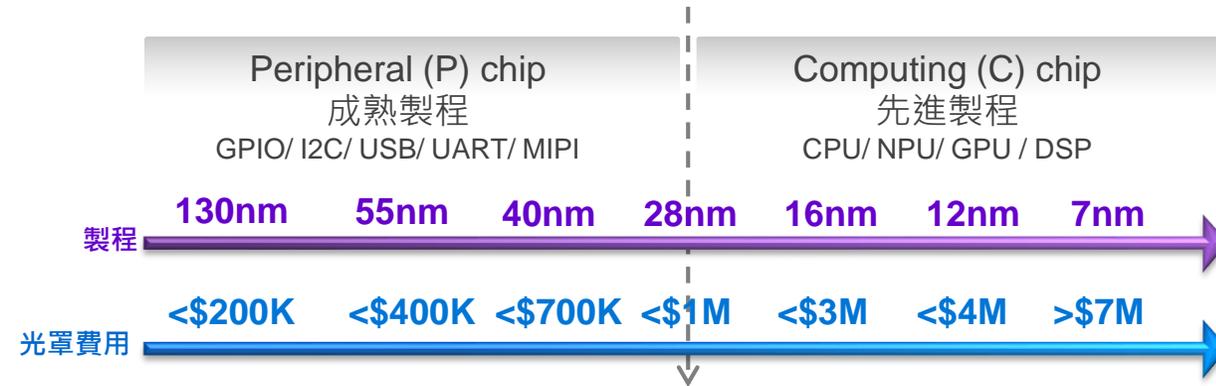
Innovative Bluetooth Audio ecosystem is creating





Plus 1

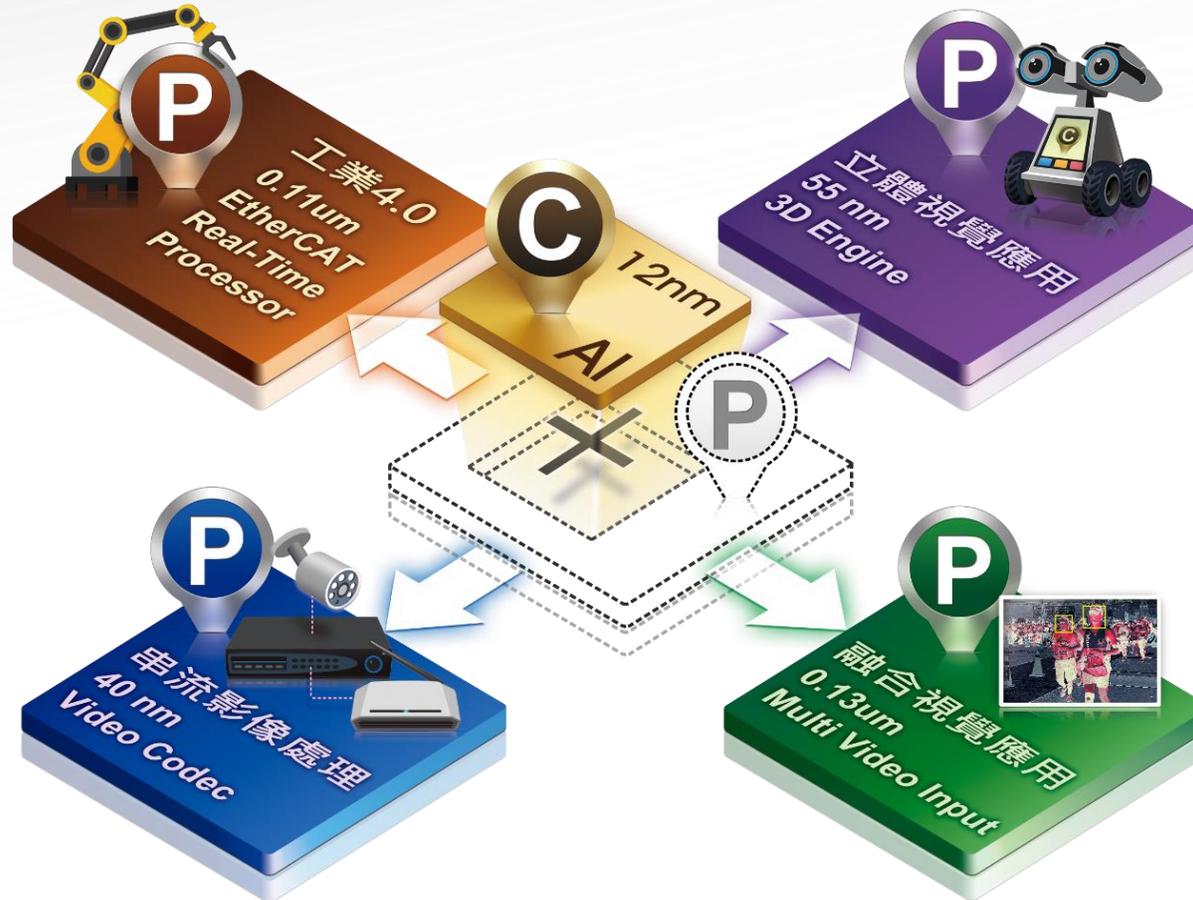
Plus1 : Chiplet Structure



C1 – IOT LINUX CHIP



+ AI on Chip EVERY



C3V Application : Robot Market

Smart Robot everywhere in the world

■ Applications

- Robot vacuums
- Automatic lawn mower
- Industrial AMR



IP Solutions

Experience Optimized IP Solutions for SoC Design

IC Design & IP Design Service



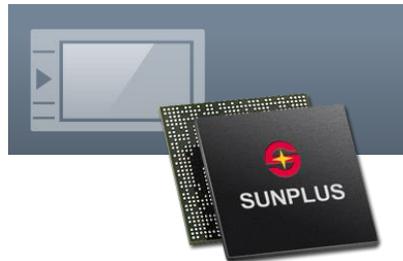
Media I/F (Audio/Video)

MIPI RX IP · HDMI Tx IP · LVDS IP · AUDIO ADC
AUDIO DAC · VIDEO DAC...



Data/Com I/F (Networking/Datacom)

10/100 ETHERNET PHY · USB 2.0 · USB 3.0
DDR 3/2 PHY · SerDes...



SoC Companion

SAR ADC · Pipeline ADC · PLL · SPREAD
SPECTRUM PLL...



SUNPLUS



Make difference