

Stock Code: 6756

VIA Labs, Inc.

Investor Conference

2024-05



VIA Labs, Inc.

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Agenda

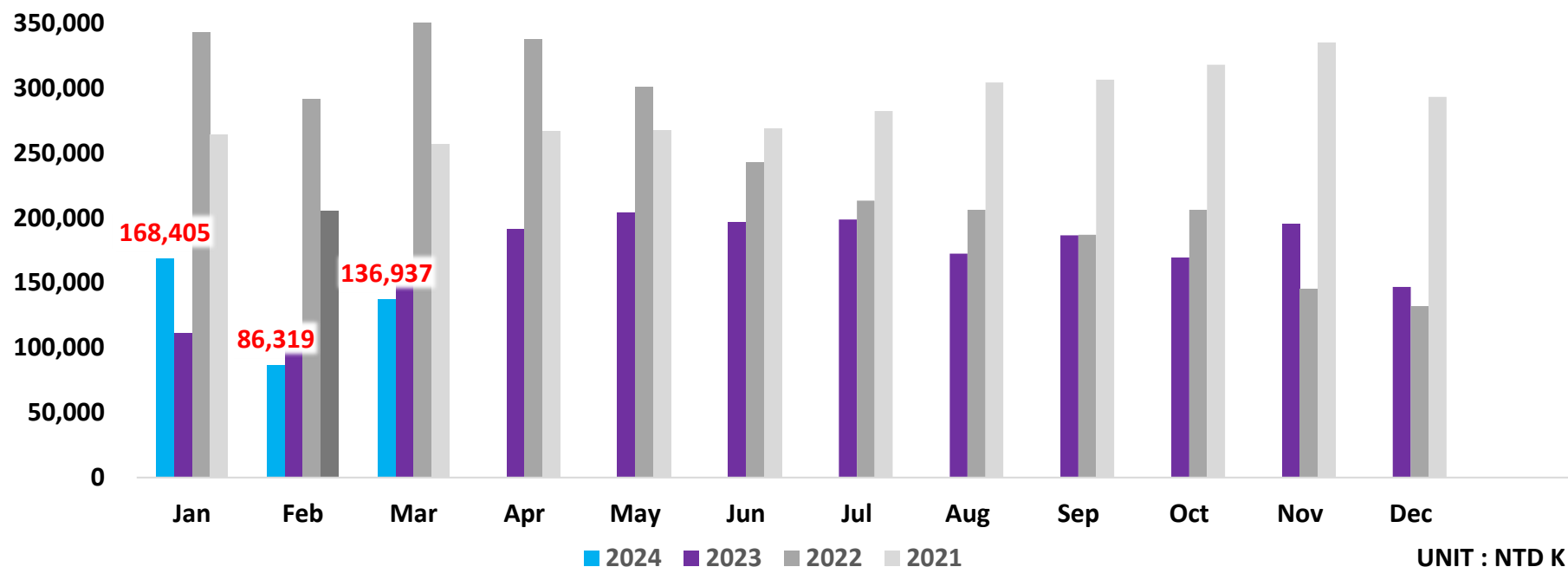
- **Operations Overview**
- **Market Overview and New Product Introduction**



OPERATIONS OVERVIEW

Y2021 – 2024/Q1 Revenue

UNIT:NTD K



UNIT : NTD K

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024	168,405	86,319	136,937										391,661
2023	110,765	114,752	148,514	191,346	203,819	196,626	198,753	172,422	186,446	169,502	195,476	146,682	2,035,103
2022	342,859	291,636	350,412	337,330	300,890	242,545	213,250	206,136	186,841	206,144	145,038	131,905	2,954,986
2021	263,761	205,112	256,278	266,771	267,206	268,843	282,310	304,339	306,475	317,881	334,967	293,104	3,367,047
年 成 長%	52%	-25%	-8%										5%
累積成長%	52%	13%	5%										

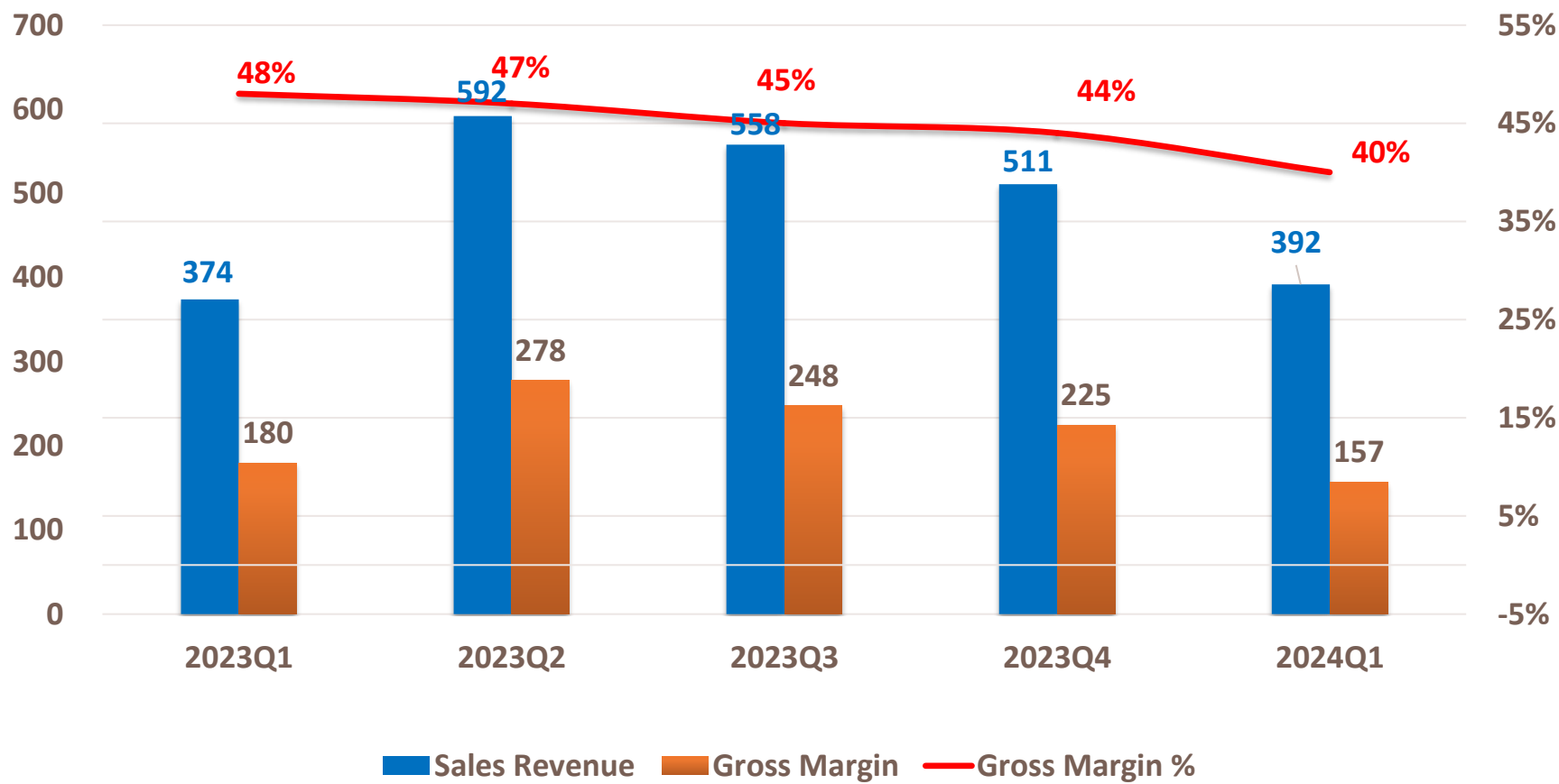
Income Statement for the Three Months Ended Mar 31, 2024

NT\$ In Thousands	For the three months ended Mar 31 2024	%	For the three months ended Dec 31 2023	%	QoQ%	For the three months ended Mar 31 2023	%	YoY%
Net Sales	\$ 391,661	100%	\$ 511,660	100%	(23%)	\$ 374,031	100%	5%
Cost of Sales	<u>235,096</u>	60%	<u>286,716</u>	56%	(18%)	<u>194,162</u>	52%	21%
Gross Profit	156,565	40%	224,944	44%	(30%)	179,869	48%	(13%)
Operating Expenses	<u>190,984</u>	49%	<u>198,469</u>	39%	(4%)	<u>175,643</u>	47%	9%
Operating Income	(34,419)	(9%)	26,475	5%	(230%)	4,226	1%	(914%)
Non-operating Items	<u>87,906</u>	23%	<u>(18,147)</u>	(4%)	584%	<u>13,688</u>	4%	542%
Income Before Tax	53,487	14%	8,328	1%	542%	17,914	5%	199%
Income Tax	<u>2,491</u>	1%	<u>(453)</u>	(1%)	650%	<u>2,868</u>	1%	(13%)
Net Income	<u>\$ 50,996</u>	13%	<u>\$ 8,781</u>	2%	481%	<u>\$ 15,046</u>	4%	239%
EPS (NTD)	<u>\$ 0.73</u>		<u>\$ 0.13</u>		462%	<u>\$ 0.22</u>		232%

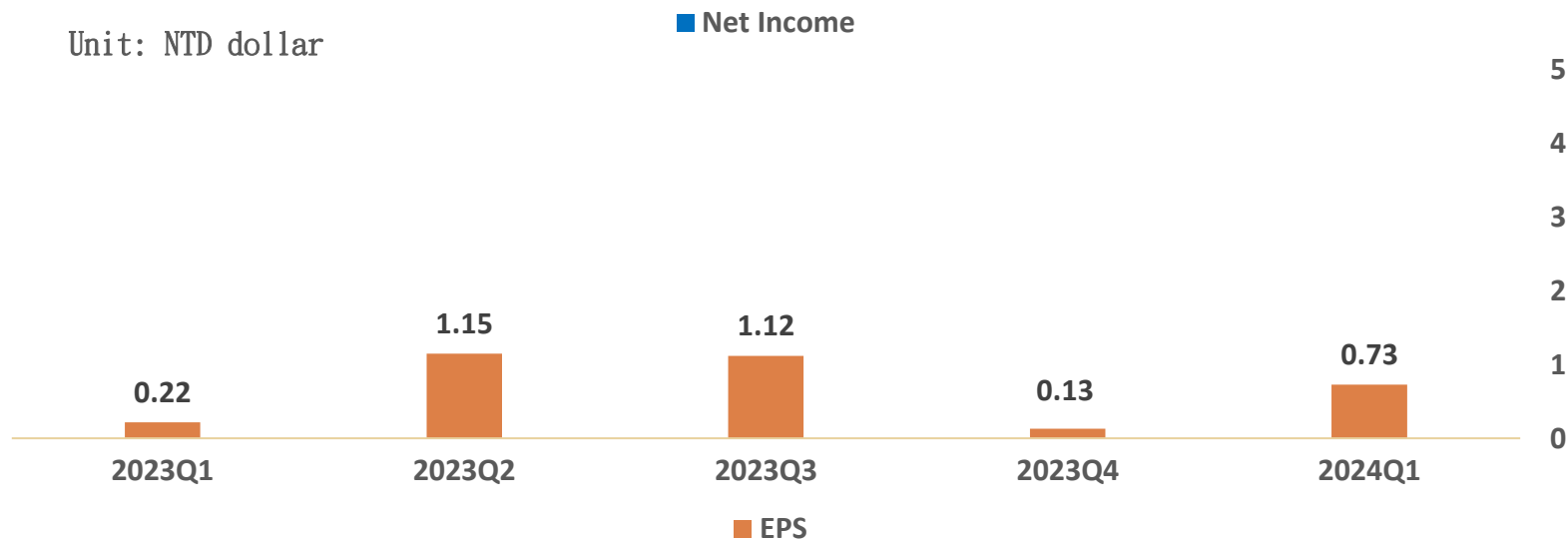
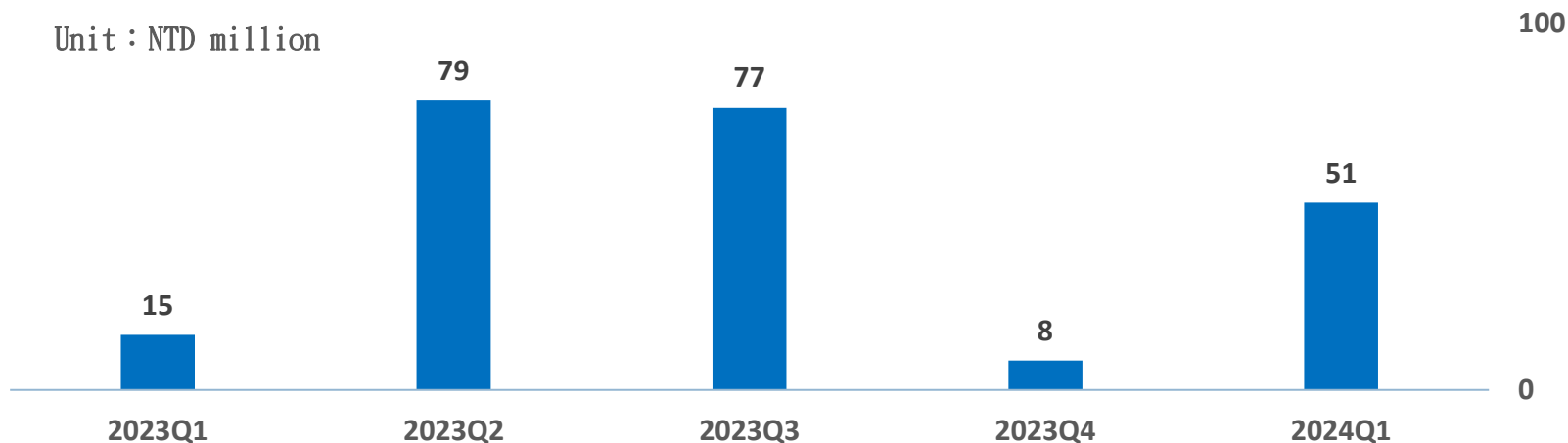


5 Quarters Operating Results-Revenue and GM%

Unit : NTD Million



5 Quarters Operating Results-N/I and EPS



MARKET OVERVIEW

NEW PRODUCT INTRODUCTION

USB4-Capable Integrated Host Platforms

Intel

11th Gen Intel Core

- ❖ “Tiger Lake” ~ Sept 2020
 - ❖ H-Series, UP3, UP4

12th Gen Intel Core

- ❖ “Alder Lake” ~ Oct 2021
 - ❖ Series: H, P, U

13th Gen Intel Core

- ❖ “Raptor Lake” ~ Jan 2023
 - ❖ Series: H, P, U

AMD

Ryzen 6000 Series Mobile

- ❖ “Rembrandt” ~ Feb 2022
 - ❖ Series: U, H, HS, HX

Ryzen 7000 Series Mobile

- ❖ “Phoenix” ~ May 2023
 - ❖ 7040 Series, 7035 Series

Apple

M1 Family

- ❖ M1 ~ Nov 2020
 - ❖ MacBook Air
 - ❖ Mac Mini
 - ❖ MacBook Pro 13-Inch
 - ❖ iMac
 - ❖ iPad Pro

M1 Pro ~ Oct 2021

- ❖ MacBook Pro (14-Inch/16-Inch)
- ❖ M1 Max ~ Oct 2021
 - ❖ MacBook Pro (14-Inch/16-Inch)
 - ❖ Mac Studio

M1 Ultra ~ Mar 2022

- ❖ Mac Studio

M2 Family

- ❖ M2 ~ June 2022
 - ❖ MacBook Air
 - ❖ MacBook Pro 13-Inch
 - ❖ iPad Pro
 - ❖ Mac Mini
- ❖ M2 Pro ~ Jan 2023
 - ❖ MacBook Pro (14-Inch/16-Inch)
 - ❖ Mac Mini
- ❖ M2 Max ~ Jan 2021
 - ❖ MacBook Pro (14-Inch/16-Inch)

M3 Family

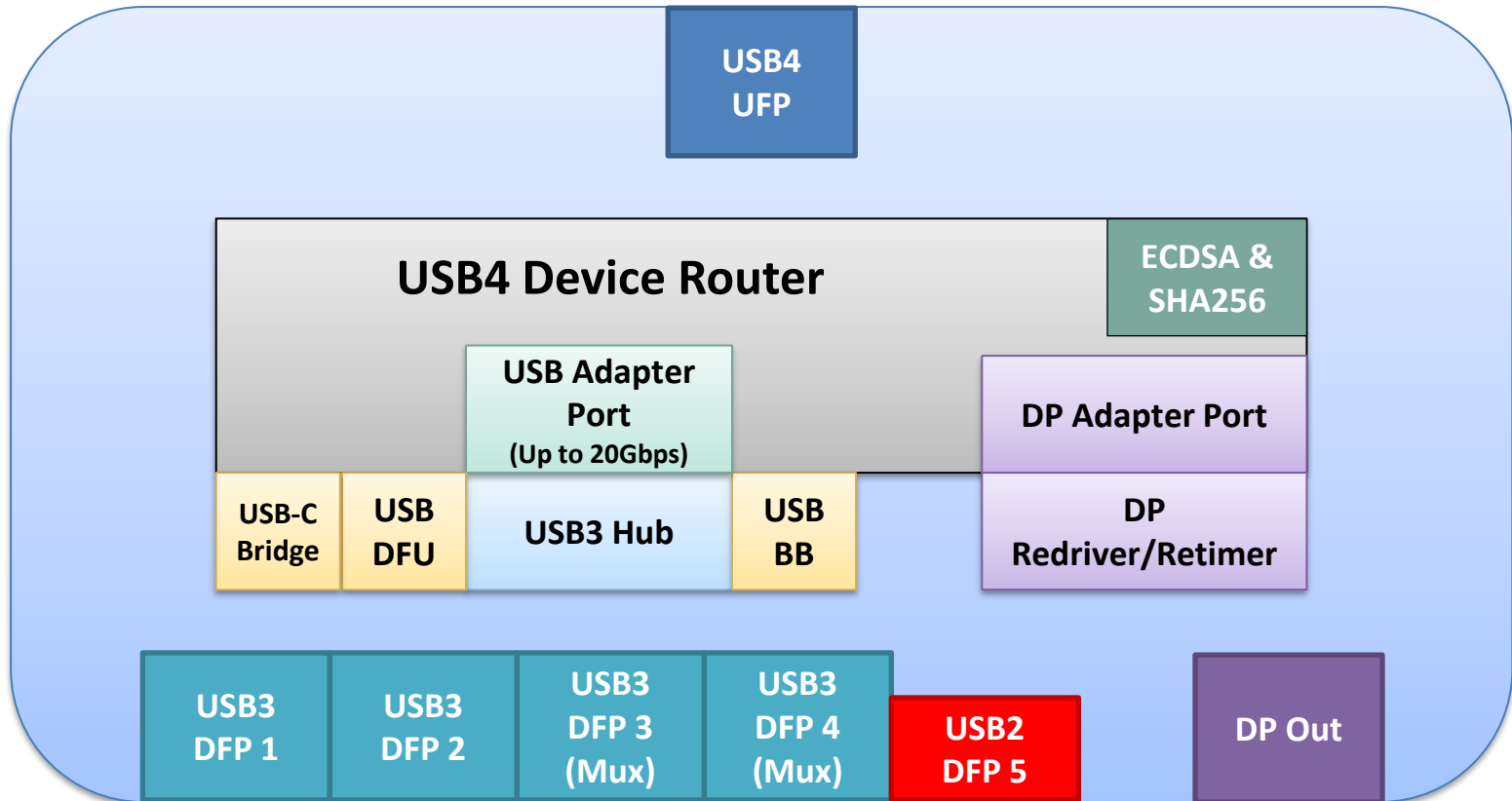
- ❖ M3/Pro/Max ~ Oct 2023

Qualcomm

Snapdragon X Elite ~ Announced Oct 2023



VL830/VL832 USB4 Endpoint Device



VL832 is USB4 Certified



VL832 UB4 Controller Obtains Certification

A Key Milestone: VL832 USB4 controller is now listed on the USB-IF Integrator's List under TID: 10033.

首頁 / 財經

《半導體》威鋒USB4新品傳捷報 取得USB-IF協會認證

08:58 2023/12/22 | 時報資訊 | 王逸芯



威鋒電子(6756)宣布，新產品VL832 USB4終端裝置控制晶片榮獲USB開發者論壇(USB-IF)的USB4產品認證，VL832支援USB 40Gbps運作，現在已列入USB-IF整合廠商名單(Integrators List)。



字級設定： [小](#) [中](#) [大](#) [特](#)



威鋒電子VL832獲得USB-IF認證是USB4生態系統中重要的里程碑，作為認證的USB4裝置控制晶片，整合了USB 3.2 Hub、USB 2.0 Hub和DisplayPort輸出功能，它為多功能轉接器和擴展塢等周邊裝置提供了重要的連接性。

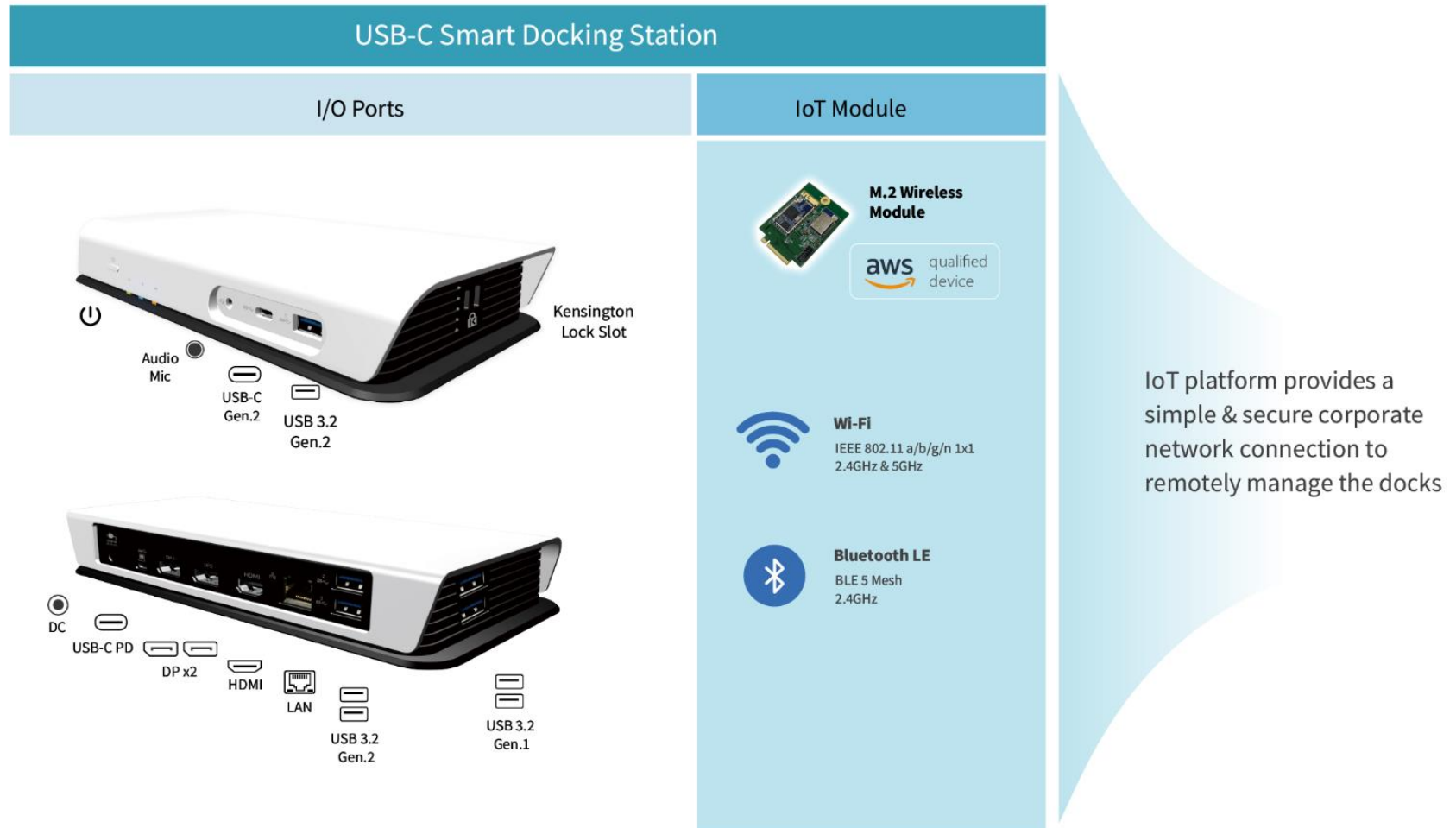
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AdChoices

Name	Company	Features	Speed	Marketing Categories
^ VL832 – USB4 Mode TID: 10033 Model Number: VL832 – USB4 Mode More Information	VIA Labs, Inc.	USB Type-C Sink, USB Type-C,5V Fixed,USB4,DisplayPort Power Delivery,DisplayPort Tunneling,USB Tunneling	USB 40Gbps	Peripheral Silicon > Other

USB-IF Integrator's List

Docking Trend: Smart Docking Station



Source: Goodway Website

VLI Patented PortSense™

PortSense™

USB Hub Application

Enables IoT Docks to gain insight about connected devices

Standard Flow

Insert Device into Hub

Hub Issues Port Status Change to Host

Host Enumerates Device

PortSense™ Flow

Insert Device into Hub

Get Device Descriptors

Reset Device

Decision

Hub Issues Port Status Change to Host

Host Enumerates Device

MCU Gets Device Info from Hub

MCU can make a Policy Decision



VLI Hubs Supporting PortSense™

USB 3.2 5Gbps Hub



VL817 (4-Port/ 2-Port)
QFN76 9x9mm (4-port)
QFN56 7x7mm (2-port)

USB 3.2 10Gbps Hub



VL822 (4-Port/ 2-Port)
QFN88 10x10mm (4-port)
QFN76 9x9mm (4-port)
QFN56 7x7mm (2-port)

USB4 40Gbps Device



VL832
FCCSP 10x10mm
19x19 Grid with 328 Balls



Phone Gaming is a Booming Trend



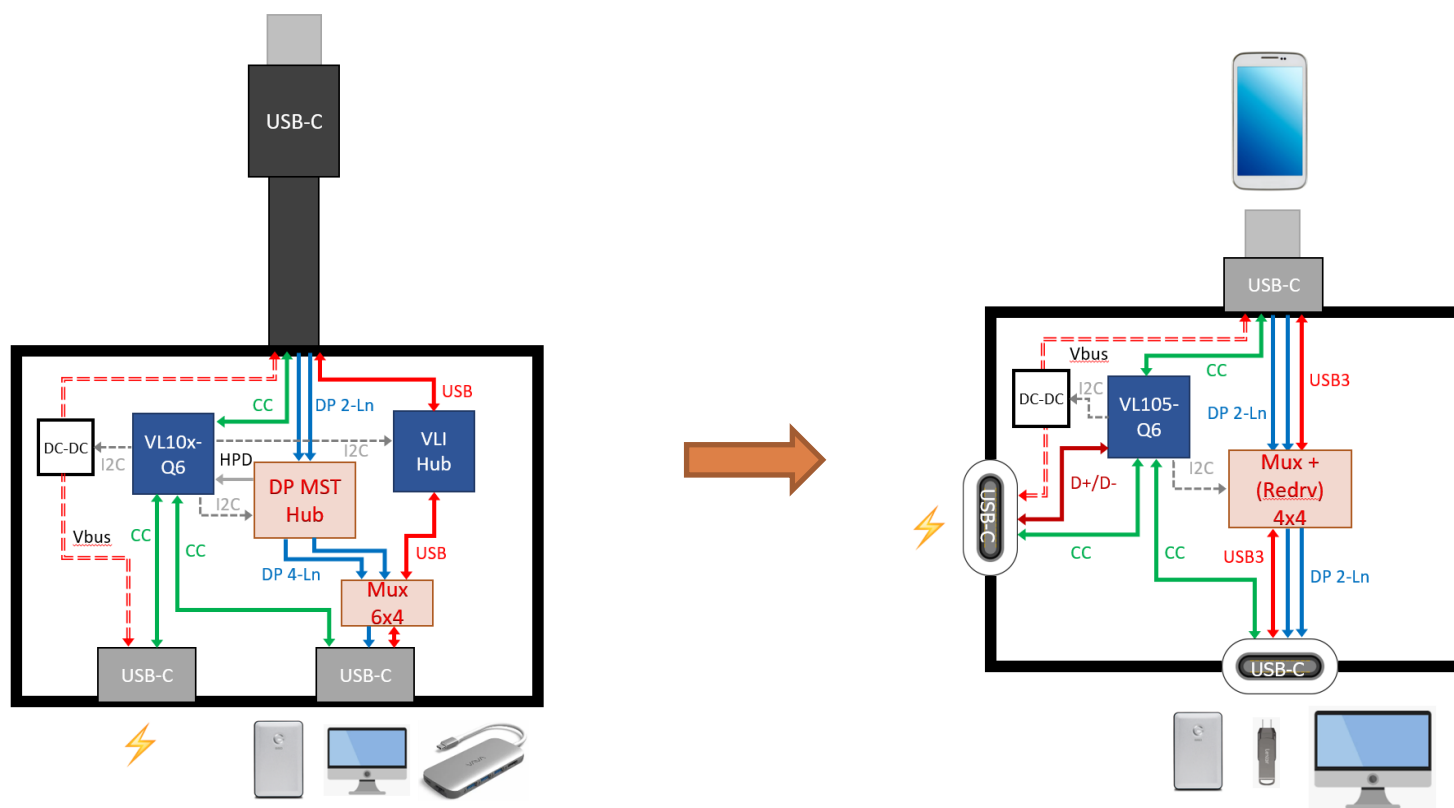
Phones with Ray Tracing Support

- Apple iPhone 15 and iPhone 15 Pro (A17/A16)
- Samsung Galaxy S23 (Qualcomm Snapdragon 8 Gen 2)
- iQOO 11 5G (VIVO/Qualcomm Snapdragon 8 Gen 2)
- OnePlus 11 5G (Qualcomm Snapdragon 8 Gen 2)
- Xiaomi 13 (Qualcomm Snapdragon 8 Gen 2)
- VIVO X100 Pro 5G (MTK Dimensity 9300)



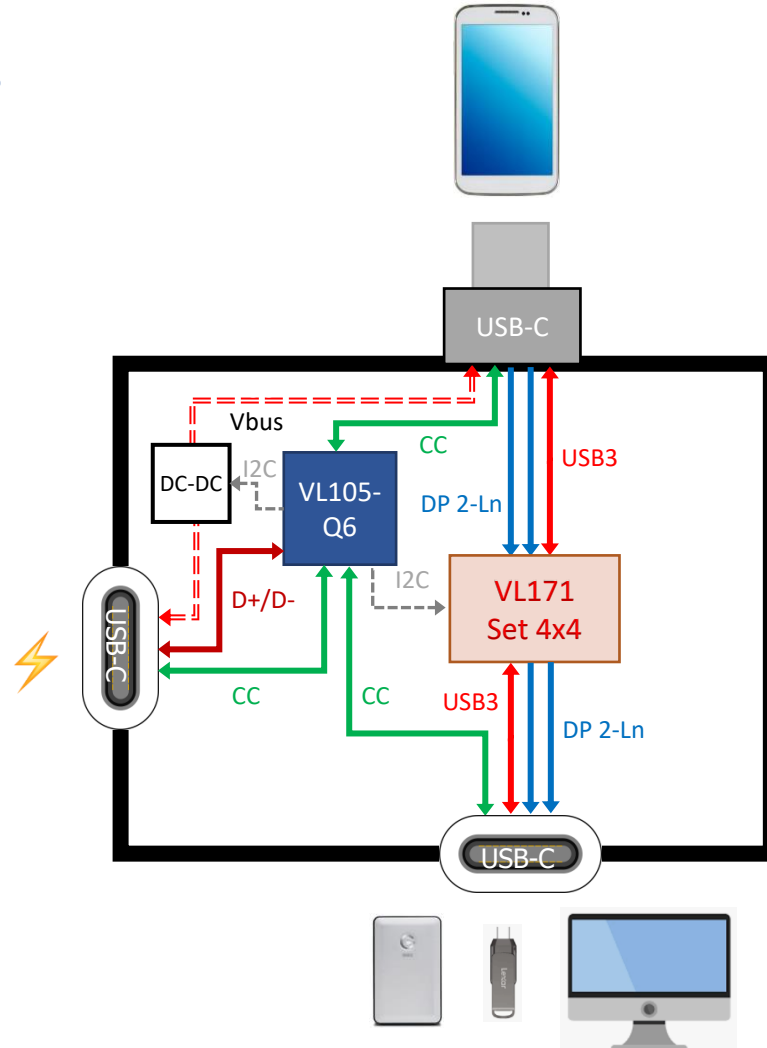
VL10x PD for Phone Gaming

- 1C-to-2C APPs for phone gaming with **low cost**
- **Only VLI have 3-port PD controller (VL105/108/109)**



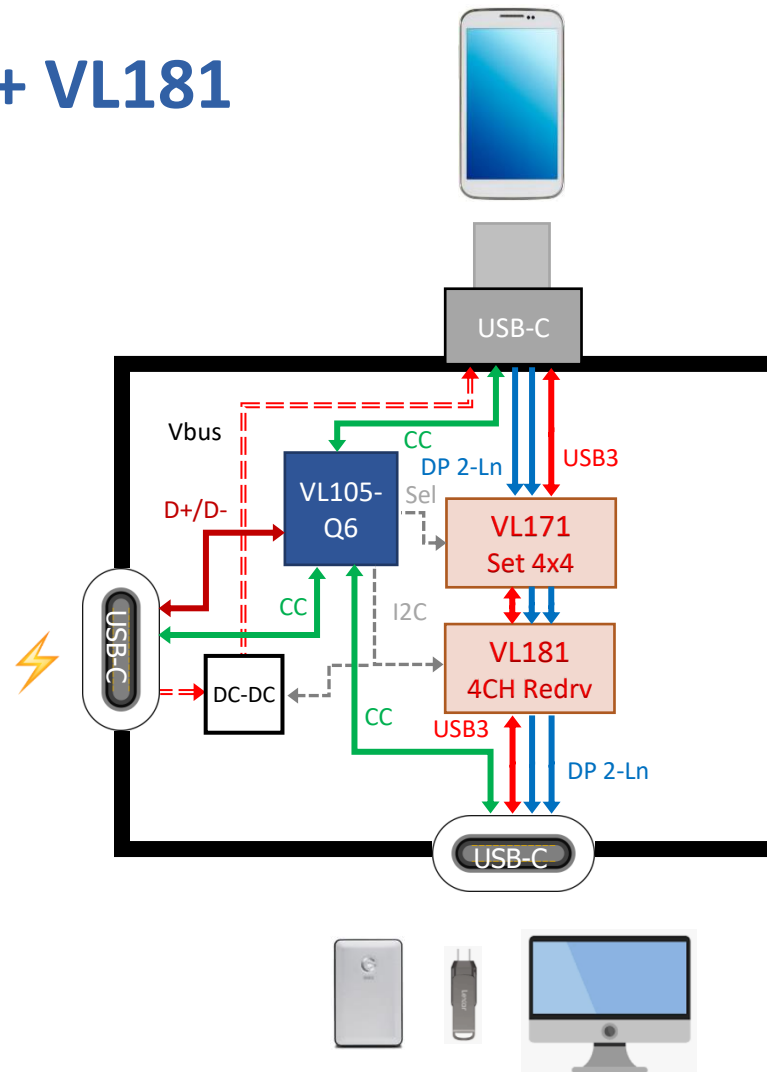
VLI Solution 1: Cost Oriented

- VL105-Q6 + VL171



VLI Solution 2: Better Signal Integrity

- VL105-Q6 + VL171 + VL181



VL60x USB-C SST PCON

HDMI2.0b



VL600

VL600

DP1.4 to HDMI2.0 PCON

DP1.4 HBR3/8.1Gb 4-Ln RX

HDMI2.0b TMDS TX

HDCP 2.3 & 1.4 Repeater w/i Keys

DSC1.2 & 1.1

USB-C DP Alt-mode w/i USB BB

DP 2-Ln @ 4K60

Static HDR

Share SPI flash w/i VLI PD or Hub

QFN60 7x7mm

HDMI2.1



VL605

VL605

DP2.1 HBR3 to HDMI2.1 PCON

DP2.1 HBR3/8.1Gb 4-Ln RX

HDMI2.1 FRL 12Gb & TMDS TX

HDCP 2.3 & 1.4 Repeater w/i Keys

DSC1.2a & 1.1

USB-C U4/DP Alt-mode + Charge-Thru

8K@60 & 4K@120

Dynamic HDR/VRR

Secure FW Update

DP 2.1 Source-controlled Mode

QFN68 8x8mm

MP Now

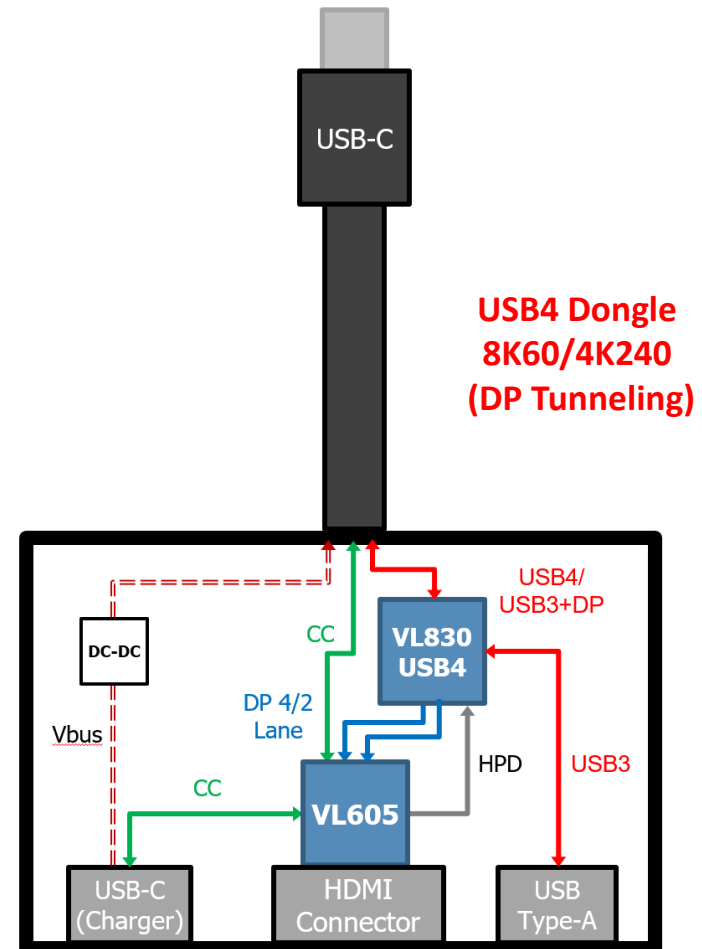
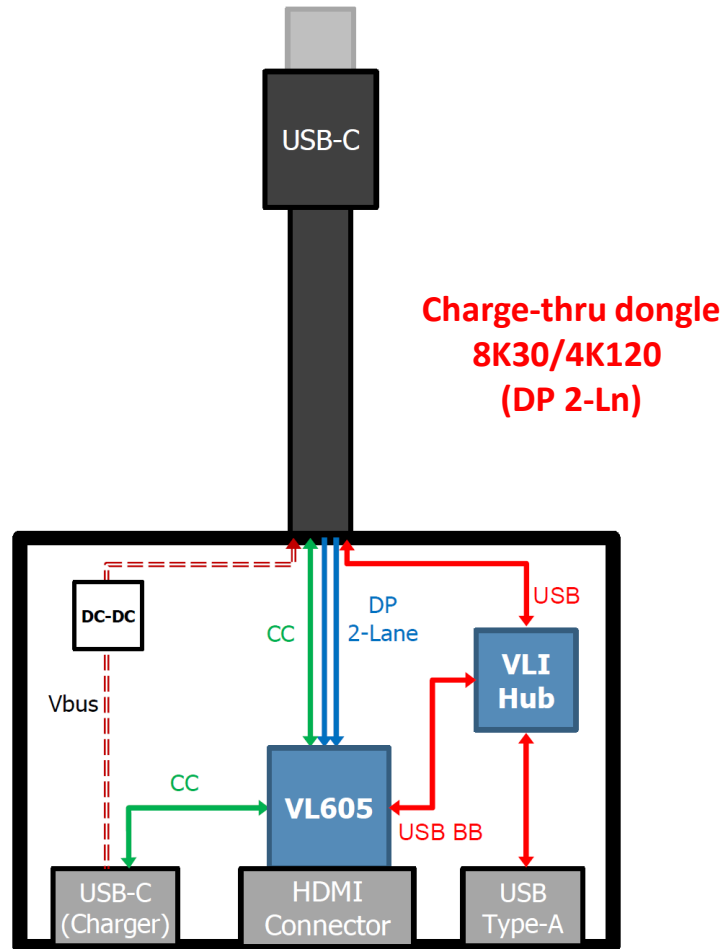


VL605 Key Features

- DP2.1 HBR3 to HDMI2.1 Video Converter
- Support 8K60 and 4K240/120
- First to built-in 2-port USB PD3.1 140W controller
- Support DP2.1 Source-controlled Mode
 - A new spec defined in DP2.1
- Support HDMI2.0 HDR on Mac platforms
- Lowest working power
 - 8K60: **VL605 630mW** vs 870mW vs 645mW vs 880mW



VL605 Applications



DP2.1 Source-controlled Mode

- In DP2.1 spec, HDMI2.1 capable PCON asks Autonomous mode and Source-controlled mode on HDMI FRL Link establishment
- **Autonomous mode**
 - Legacy mode of PCON in the market
 - PCON run FRL link training when connected HDMI Sink device is ready to handle FRL link training
- **Source-controlled mode**
 - PCON follows DP Source instructions
 - PCON shall enable HDMI link training only when a DP Source device sets the HDMI_LINK_ENABLE bit
- **VL605 supports both modes**



VL605 Supports Mac HDR

- Mac OS has its own HDR spec in HDMI TMDS mode utilizing spec reserved bits



VL605 Mac OS HDR On



VL605 Mac OS HDR Off

TWSE: 6756



VIA Labs, Inc.

For more information about VLI:

VIA Labs, Inc.



Vision
Leadership
Intelligence



Thank You

