MediaTek Overview

Q4 2022

MediaTek at a Glance

THIS CHIP CHANGES EVERYTHING

Enrich & Enhance Everyone's Life

Our mission is to be a change catalyst, empowering our partners with smart technology solutions that will inspire them to connect with the "next billion" people.

By building technologies that help connect individuals to the world around them, we are enabling people to expand their horizons and more easily achieve their goals.

We believe anyone can achieve something amazing. And we believe they can do it every single day. We call this idea Everyday Genius and everything we do is dedicated to making it possible.
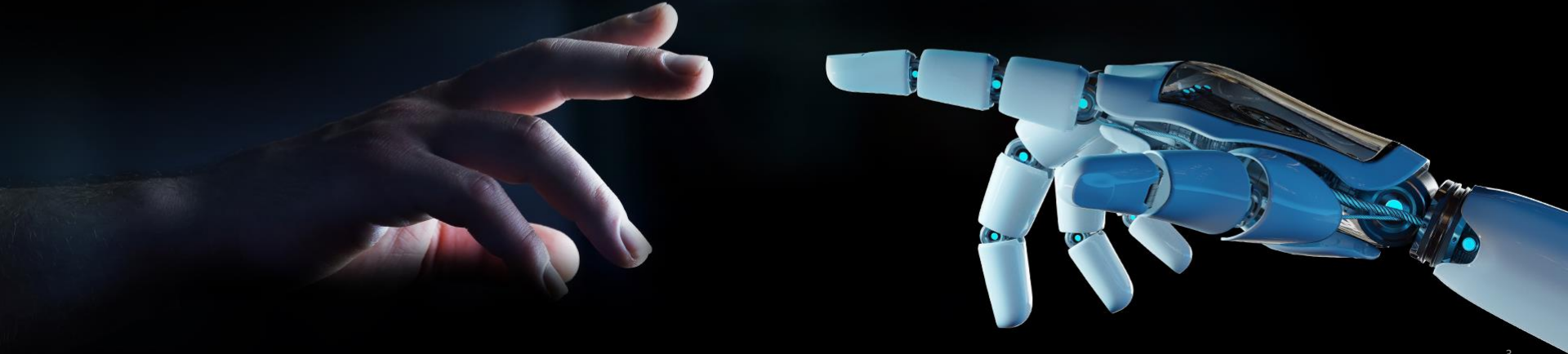
MEDIATEK GROUP

MEDIATEK
MediaTek Inc.

AIROHA
Airoha Technology Corp.

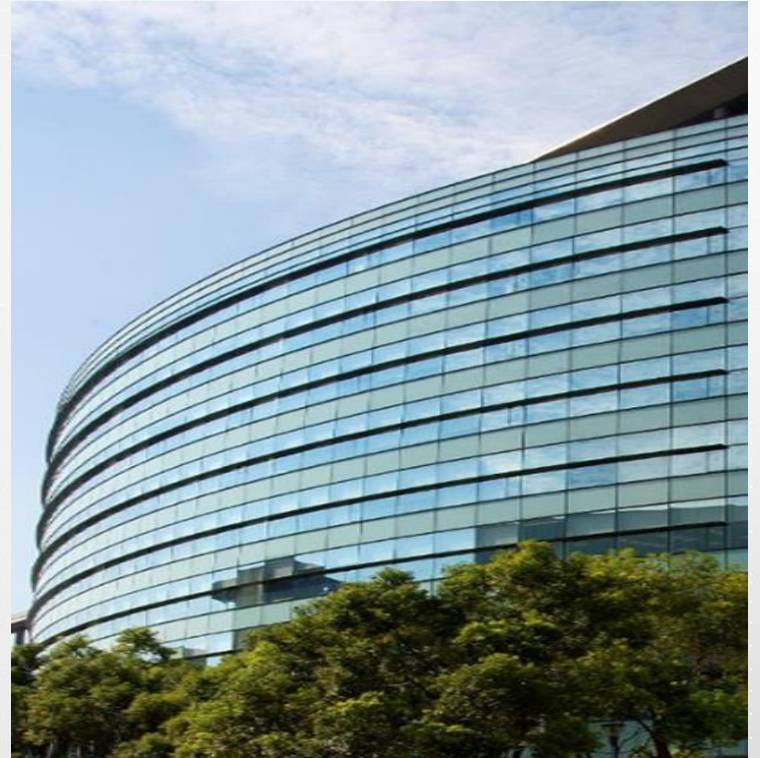**RICHTEK**
Richtek Technology Corp.

4<superscript>TH</superscript>

World's fourth largest fabless IC design company (by revenue) in 2021

Headquarters in Taiwan
Publicly listed on the Taiwan Stock Exchange Market
(ticker number 2454)
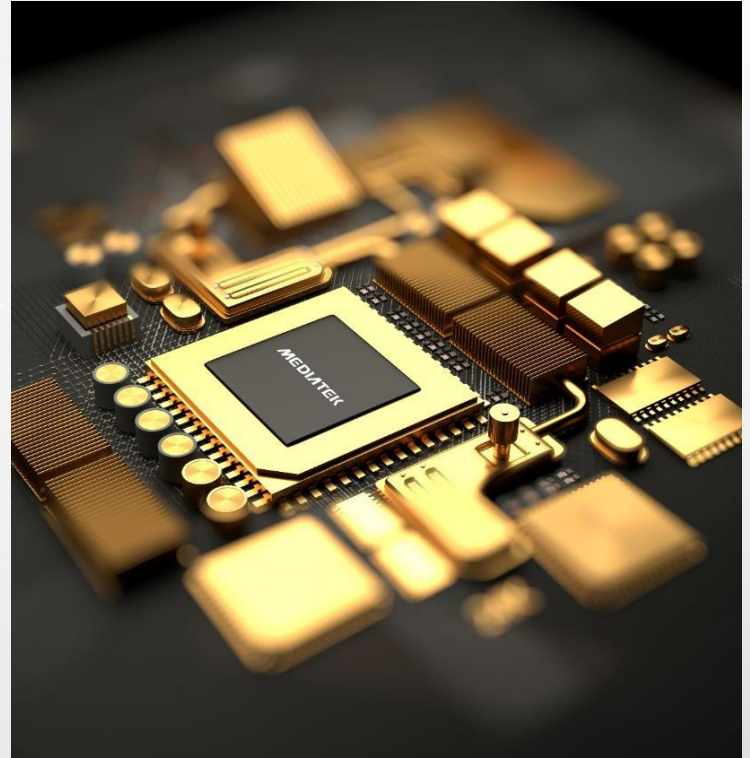
Source: TrendForce, March 2022

7TH

Largest semiconductor company worldwide in 2021 (by revenue)

Raised from ranking #8 in 2020 with a 60.2% growth rate

Source: Gartner's Market Share Analysis: Semiconductors, Worldwide, 2021

17.6 BN

MediaTek Group Revenue in 2021 (USD)

or TWD 493.4 billion.
Key product categories: mobile communication, intelligent devices, analog, wireless & wired connectivity, and IoT
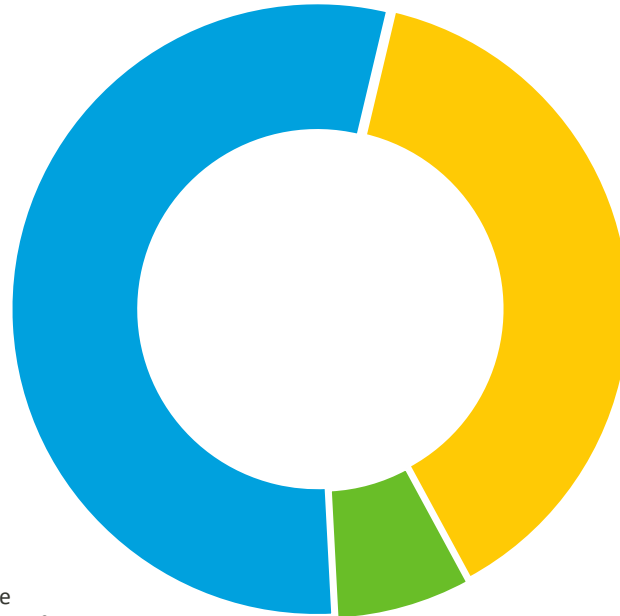
Our Products

Diversified Product Portfolio

2022 Q2 status by revenue

54%
Mobile Phone

38%
Smart Edge Platforms

7%
Power IC

Sums may not equal 100% due to rounding.
- **Mobile Phone**: 5G/4G/3G smartphone and feature phone
- **Smart Edge Platforms**: Wireless/wired connectivity and SoC for router, broadband, PON, laptop, wireless headset, smart speaker and automotive; ARM-based computing and IoT; TV; customized service for consumer/enterprise platforms
- **Power IC**: Power IC

Diversified Product Portfolio

cross-platform, global market leadership

revenue ratio*:   **54%**   **38%**   **7%**

Mobile Phone		Smart Edge Platforms							Power IC
Smartphone	Feature Phone	Arm-based Chromebook	Android Tablet	Voice Assistant Device	Connectivity, Broadband & Networking	Smart TV & Digital TV	Optical Drive & BD Player	ASIC	Power Management
#1	#1	#1	#1	#1	#1	#1	#1	growing	growing

Source (ranking by 2021 market share): Strategy Analytics, Gartner, IDC, IC Insight, iSuppli and MediaTek company data.
*based on 2022 Q2 revenue ratio (*Sums may not equal 100% due to rounding*).

MediaTek Platforms

enabling an everywhere connected experience

Gaming

Automobile

Connectivity

Smartphone

Tablet

Digital TV

Wearable

Optical Drive

AR / VR

DC / Cloud Switch

Connected on the Move

total solution provider for mobile computing

| Automotive | Smart Devices | Others |

Automotive:
- Infotainment
- eCockpit
- Telematics
- Smart Rear Mirror
- Navigation
- mmWave Radar

Smart Devices:
- Chromebook
- Smartphone
- Tablet
- Smartwatch
- Wearable

Others:
- Sharing Bike
- Drone
- Smart Meter

Connected at Home

total solution provider creating a smarter home

Home Entertainment	Smart Appliances	Connectivity & Networking

Home Entertainment
- BD Player
- Setup Box
- SmartTV Dongle
- Smart TV
- Tablet
- Soundbar
- Game Console

Smart Appliances
- Display
- Smart Outlet & Control
- Voice Assistant
- Smart Lighting
- Wireless Speaker
- Smart Meter

Connectivity & Networking
- Wireless AP
- Wi-Fi Mesh
- GPON
- Cable Router
- xDSL Router
- Enterprise AP
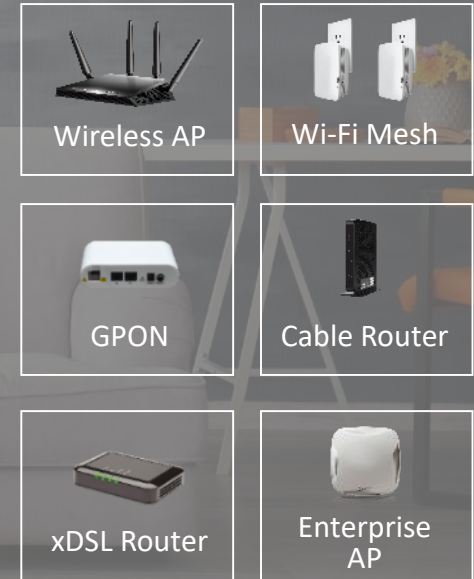
Aiming at Future

shift in scale reflecting the potential opportunity

Mainframe	Minicomputer	Personal Computer	Desktop Internet	Mobile Internet	IoT / 5G / AI

10BN+

Device-Centric   Cloud-Centric

1BN+

100MN+

10MN+

1MN+

HMI   Mouse   Touch   Voice

1960   1970   1980   1990   2000   2010   2020
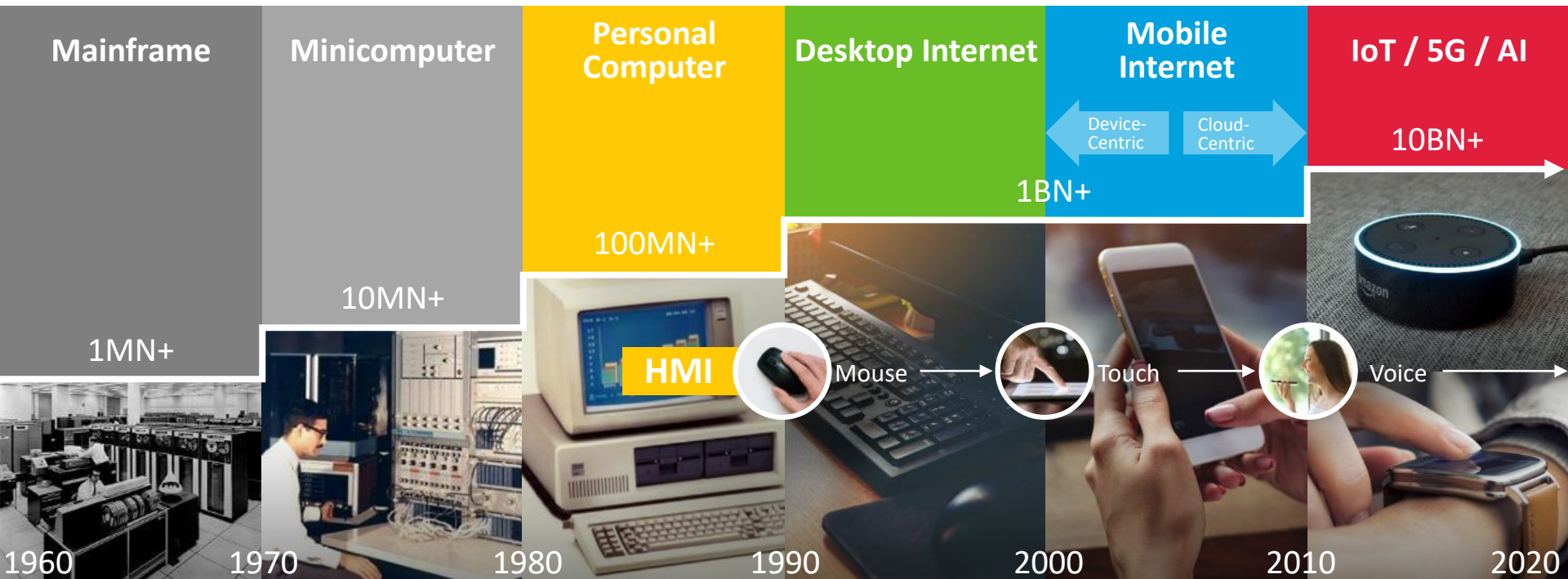
"Make in Vietnam"

MediaTek: Vietnam customers

Easy Mesh Access Point – EW12SX

Chipset
CPU: MediaTek MT7621DAT

Dualcore 880MHz

Chipset 2G: MT7603EN

Chipset 5G: MT7613BEN

Power
DC 12V – 1A

Memory
128MB DDR2 RAM

16MB NOR Flash

Interface
02 Gigabit Ethernet port

Button
01 Reset button

01 WPS

Led
01 led

Wifi
802.11 a/b/g/n/ac

2.4Ghz: MIMO 2x2

Phy rate: 300 Mbps

5Ghz: MIMO 2x2

Phy rate: 867 Mbps

Bandwidth 20/40/80 Mhz

MU-MIMO

Beamforming

TXPW: 20dbm per chain @2.4GHz

20dBm per chain @5GHz

Antenna
Internal Omni antenna

Dual band 2x2

3dBi gain

OS
Linux

VNPT Technology
A MEMBER OF VNPT

Easy Mesh Access Point – EW30ST

Chipset
CPU: MediaTek MT7981

Dualcore 1.3GHz

Chipset WiFi: MT7976

Power
DC 12V – 1.5A

Memory
256MB DDR3 RAM

32MB NOR Flash

Interface
02 Gigabit Ethernet port

Button
01 Reset/WPS button

Led
05 led

Wifi
802.11 a/b/g/n/ac/ax

2.4Ghz: MIMO 2x2

Phy rate: 573.5 Mbps

5Ghz: MIMO 2x2

Phy rate: 2471.9 Mbps

Bandwidth 20/40/80/160 Mhz

MU-MIMO

Beamforming

TXPW: 20dbm per chain @2.4GHz

21dBm per chain @5GHz

Antenna
Internal Omni antenna

Dual band 2x2

3dBi gain

OS
Linux

Enterprise Router – ER6221

Chipset

CPU: MediaTek MT7621 Dualcore 880MHz

Chipset WiFi: MT7615

Power

DC 12V – 1.5A

Memory

512MB DDR3 RAM

64MB NOR Flash

Interface

05 Gigabit Ethernet port

02 Micro USIM slot (Active-Active)

01 Micro SD slot

Button

01 Power on/off

01 Reset button

01 WPS

Led

10 led

Wifi

802.11 a/b/g/n/ac

2.4Ghz: MIMO 2x2

Phy rate: 300 Mbps

5Ghz: MIMO 2x2

Phy rate: 867 Mbps

Bandwidth 20/40/80 Mhz

TXPW: 23dbm per chain @2.4GHz
        23dBm per chain @5GHz

Cellular

02 Internal LTE Modules

TDD-LTE B34/B38/B39/B40/B41

FDD-LTE B1/B3/B5/B8

Category 4 (150Mbps/50Mbps)

UMTS/HSPA+,GPRS/Edge,EVDO

Antenna

02 Internal WiFi Omni antenna
Dual band 2x2, 3dBi gain
04 External Cellular Omni antenna
3G/LTE, 1T2R, 5dBi gain

OS

Linux

VNPT Technology
A MEMBER OF VNPT

VNT Tab8

CPU	MT8765A
RAM	3 GB
Flash	32 GB eMMC Flash
Kích Thước	134 x 214 x 12 mm
Màn Hình	8 inches, 800 * 1280 IPS
Camera	2.0M (Front) 5.0M (Rear)
Pin	Li-ion 5000mAh
Nguồn	5V – 1.5A
Chức Năng	
GPS	Có
FM	Có
Loa Ngoài	Có
Micro	Có
Chế độ rung	Có

VNPT Technology
A MEMBER OF VNPT

- **Ethernet port**: 4 x 10/100/1000 base-TX.
- **Optical port:** DL/UL:2.5/1.25 Gbps
- **Antenna:** 2 x 2 MIMO or 3 x 3 MIMO
- **Wifi:** Dual band 2.4/5GHz
- **Standard:** 802.11b/g/n/ac/ax
- Allowing connection to peripherals through communication standards such as USB, VoIP, Ethernet
- Performing data transmission by wireless signal (Wifi) between GPON equipment and terminals of customers.
- Supporting dualband feature, working on both 2.4 GHz and 5 GHz transceiver frequencies.
- Ready to deploy Wifi MESH network for customers.

viettel
high tech

Achievements:
❖ *Awards have been achieved such as: Golden Award- IT World Awards 2021 in the category "Innovative products, high-tech blocks".*
❖ *Products have been deployed in the markets of Vietnam with volume ~ 1M devices.*

- **Ethernet port**: 3 x 10/100/1000 base-TX.
- **Wifi:** Dual band 2.4/5GHz
- **Standard:** 802.11b/g/n/ac/ax
- **Supporting** 2 x 2 MIMO technology on 2.4 GHz and 5GHz bands, allowing connection speed up to 300 Mbps with n standard and 867 Mbps with ac standard
- Two simultaneous radio streams provide a high-speed Wifi connection to a large number of users.
- Smart antennas are optimally designed in accordance with the used space, helping to increase coverage and stability
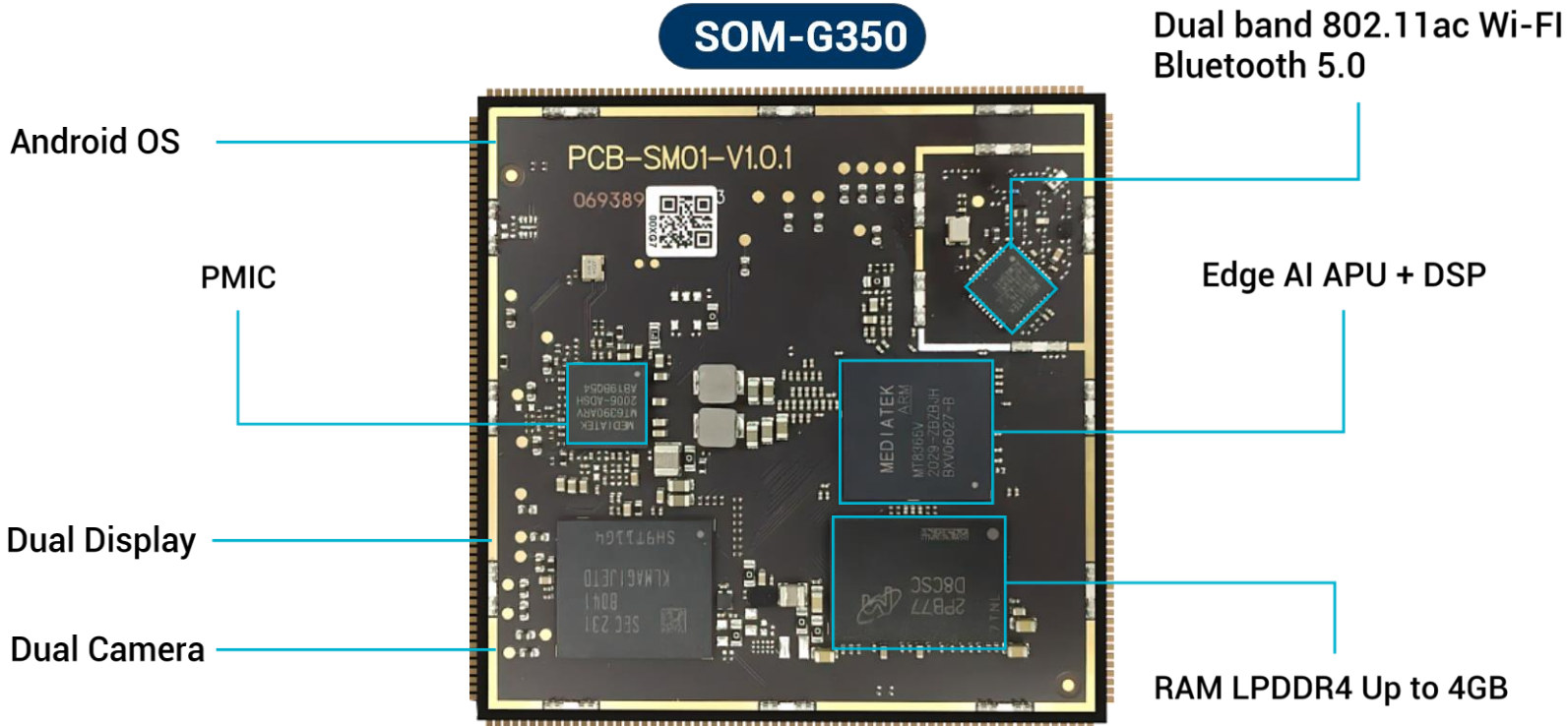- Ready to deploy Wifi MESH network for customers.

Achievement:
❖ *Products have been deployed in the markets of Vietnam with volume ~ 100K devices.*

KIT G350

Carrier Board

Power LED
DC-in
HDMI
Ethernet
Touch Panel
2x30 pin
IO Expander
Micro SD
DMIC1
AMIC1
DMIC3
USB Host x3
SOM i350
DMIC4
Micro USB
MIPI 4-lane DSI
1st MIPI 4-lane CSI for front camera
Jack 3.5
Reset Button
Volume up (Download) Button
Power Button
Volume down Button
AMIC2
DMIC2
2nd MIPI 4-lane CSI for rear camera
PCB-K02-V1.0.1
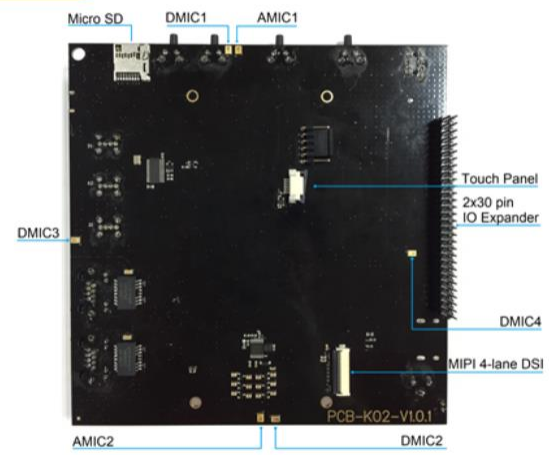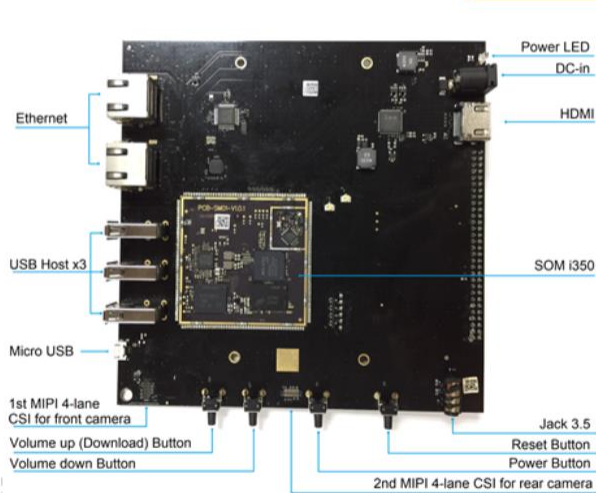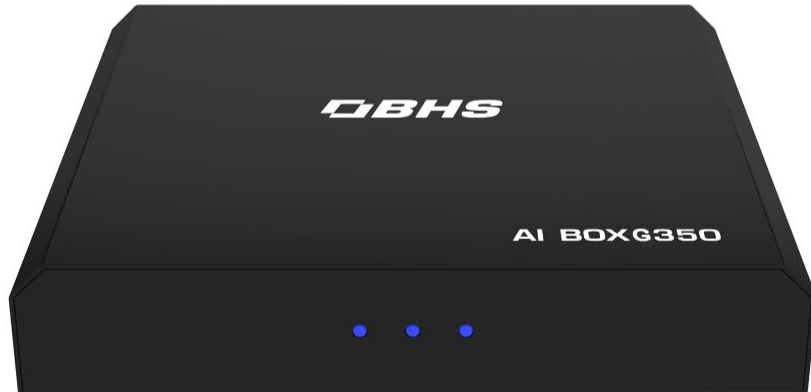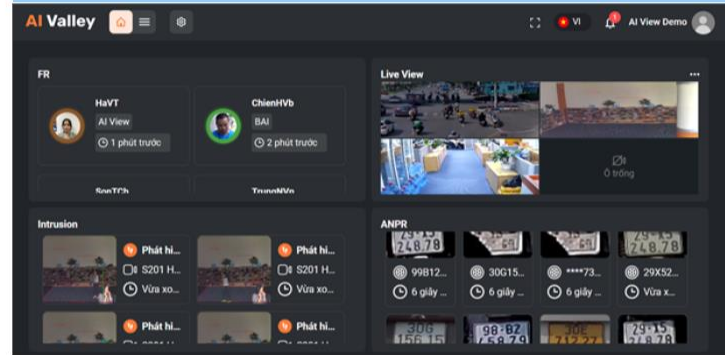
AI BOX

Specification

- Ram: Up to 4G
- Lan Ethernet: 100 Mbps
- Digital I/O: 2 In, 2 Out
- Camera: 2 Channel
- Ready Platform for Edge AI
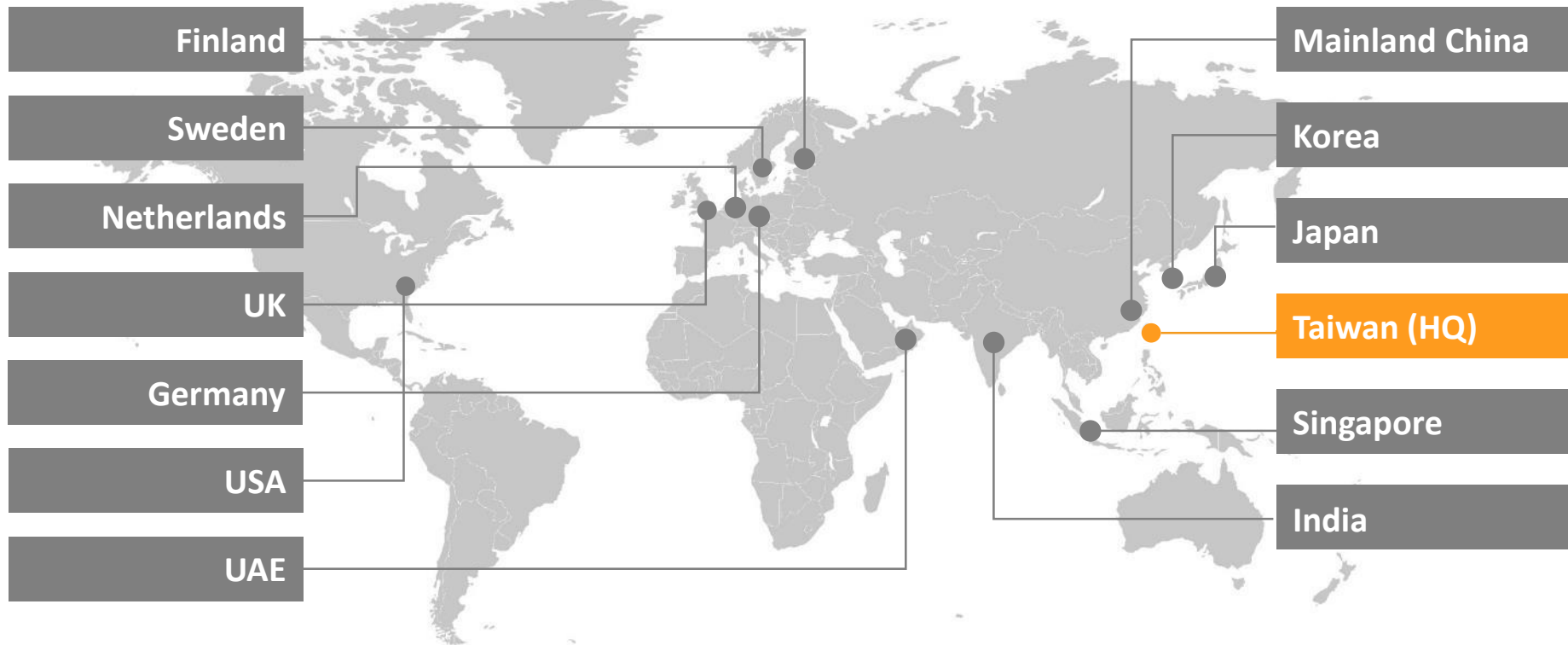
Go Global with MediaTek

50

We have more than 50 offices with 17,000+ employees globally

MediaTek Group includes: Airoha (達發), Richtek (立錡)

MediaTek Group Global Presence

Finland

Sweden

Netherlands

UK

Germany

USA

UAE

Mainland China

Korea

Japan

Taiwan (HQ)

Singapore

India

Leading Core Technologies

Enabling Intelligent Devices with Tier-1 Customers

Customer

Product

Connectivity

Multimedia

RF & Analog

Technology / IP
SoC Design

Compute

Modem

Software & System

Global Partners

Enabling an Everyday Genius Experience

MediaTek Ecosystem

PARTNER HARDWARE & SOFTWARE

APPLICATION MARKET SEGMENTS

PARTNER ECOSYSTEM
Partner System Software
Partner System Hardware
Ecosystem Partner Network | Sales Channel

MEDIATEK PLATFORM

DEVELOPER RESOURCES
Website | Documentation | Developer Tools | Training

OPEN PLATFOR SDKS
Yocto Linux | Ubuntu | Android…

Full Featured Evaluation Kits	Wi-Fi / BT/5G…
SoC	
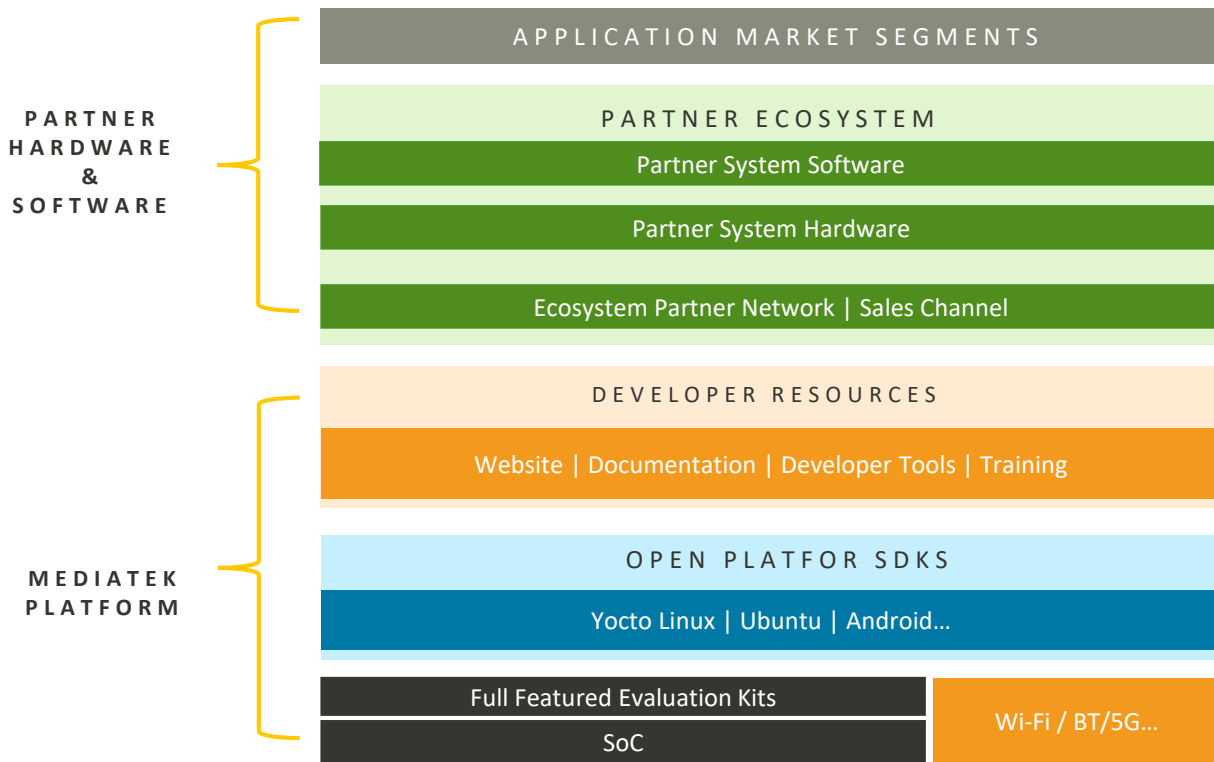
Go Global with MediaTek

MEDIATEK

"Make in Vietnam"

ONT

Mesh AP

Smart Speaker

Smart Home

And more…
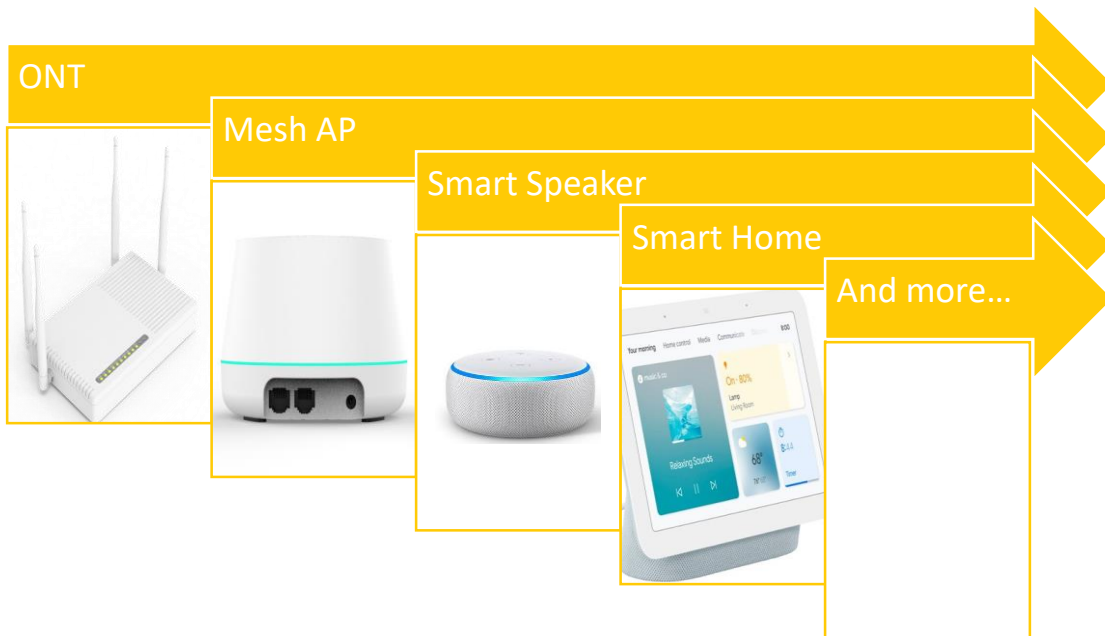
Global Market

Thank You

Question & Answer