Nuvoton Technology Corporation

4Q'24 Investor Conference

Feb 18, 2025

Agenda

Nuvoton Financial Results

Nuvoton 4Q'24 Business Update

Nuvoton AI Solution

Q&A

Safe Harbor Notice

❖ We have made forward-looking statements in this presentation. Our forward-looking statements contain information regarding, among other things, our financial condition, future expansion plans and business strategies. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that these expectations and projects are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us.

❖ We undertake no obligation to publicly update or revise any forward-looking statements whether as a result of new information, future event or otherwise. In light of these risks, uncertainties and assumptions, the forward-looking events discussed in this conference might not occur and our actual results could differ materially from those anticipated in these forward-looking statements.

❖ The information contained herein shall also not constitute an offer to sell or a solicitation of an offer to buy the company's securities nor shall there be any sale of such securities in any state or country in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or country.

Nuvoton Financial Results

Statement of Comprehensive Income - Consolidated

Unit: NT$ M	4Q'24 Amount	%	3Q'24 Amount	%	FY2024 Amount	%
Net Revenue	7,270	100	7,957	100	31,923	100
Gross Profit	2,769	38.1	2,972	37.3	12,097	37.9
Operating Income	(220)	(3)	(32)	-	13	-
Non-Operating Income	201	3	(4)	-	387	1
Income before Income Tax	(19)	-	(35)	-	400	1
Net Income (Loss)	(62)	-	(105)	(1)	220	1
EPS (NTD)	(0.15)		(0.25)		0.52	

Balance Sheet - Consolidated

Unit: NT$ M	Dec 31 '24 Amount	Dec 31 '24 %	Sep 30 '24 Amount	Sep 30 '24 %	June 30 '24 Amount	June 30 '24 %
Cash & Cash Equivalents	5,704	19	5,272	17	7,144	23
Accounts Receivable	3,604	12	4,013	13	4,015	13
Other Receivable	420	1	509	2	512	2
Inventories	7,126	24	6,759	22	6,160	20
Long-Term Investments	3,353	11	3,441	11	3,252	10
Property, Plant, Equipment and R.O.U	8,046	26	8,496	28	7,769	25
Others	2,043	7	2,226	7	1,877	7
Total Assets	30,296	100	30,716	100	30,729	100
Current Liabilities	10,431	34	9,102	30	9,555	31
Non-Current Liabilities	4,202	14	5,512	18	5,733	19
Total Liabilities	14,633	48	14,614	48	15,288	50
Total Equity	15,663	52	16,102	52	15,441	50
Debt/Equity Ratio	0.9		0.9		1	

Statement of Cash Flows - Consolidated

Unit: NT$ M	4Q'24 Amount	3Q'24 Amount	2Q'24 Amount
Cash Flows from Operating Activities	(358)	(583)	1,548
Cash Flows from Investing Activities	(229)	(525)	(739)
Cash Flows from Financing Activities	1,060	(1,008)	43
Cash & Cash Equivalents	5,704	5,272	7,144
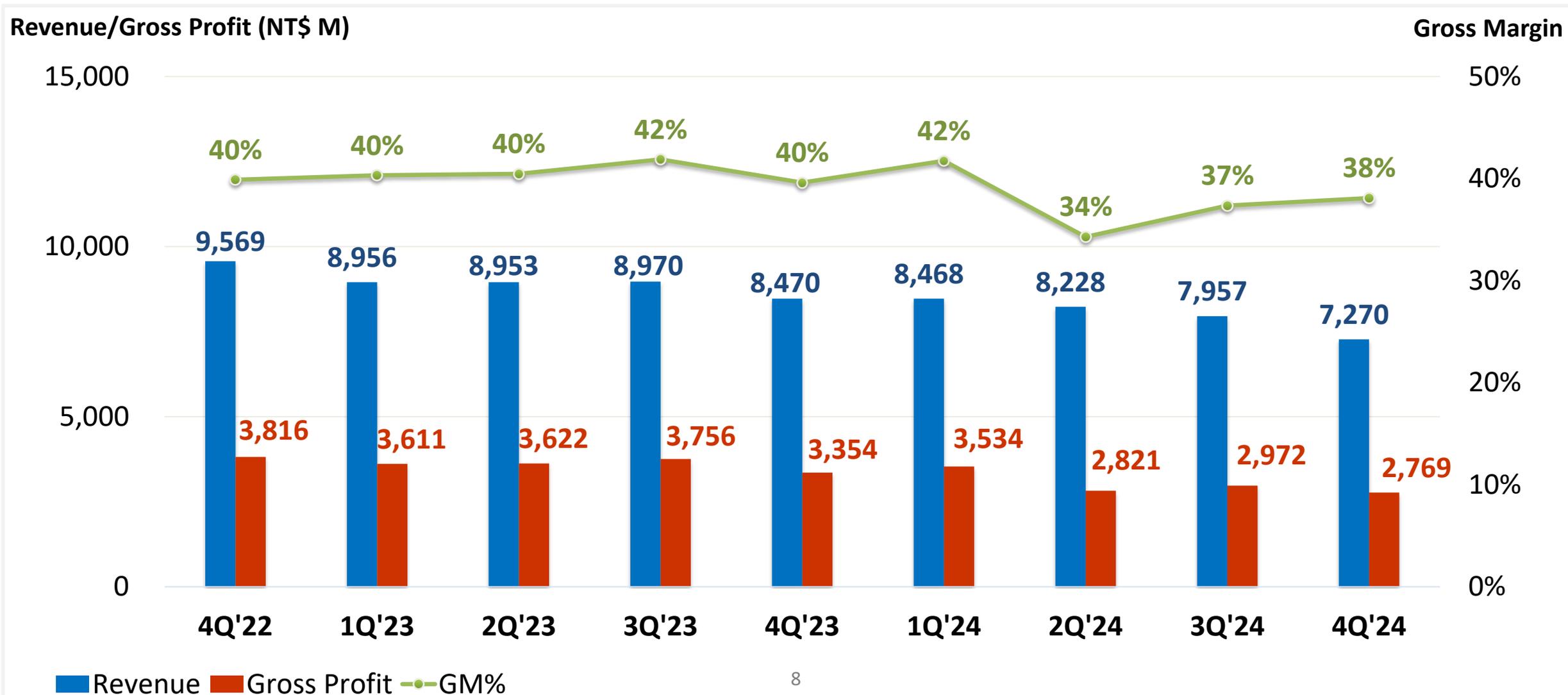
Nuvoton 4Q'24 Business Update

4Q'24 Revenue by 4C Applications

Automotive& Industrial
- BM-IC
- HMI
- IC Card
- MCU

Computer
- BMC
- EC
- MCU
- Super IO
- TPM

Communication & Others
- MCU
- MOSFET

Consumer
- Audio IC
- HDMI IC
- MCU

4Q'24
- 22%
- 44%
- 19%
- 16%

3Q'24
- 21%
- 44%
- 19%
- 15%

Note: Foundry revenue was not included in the numbers .
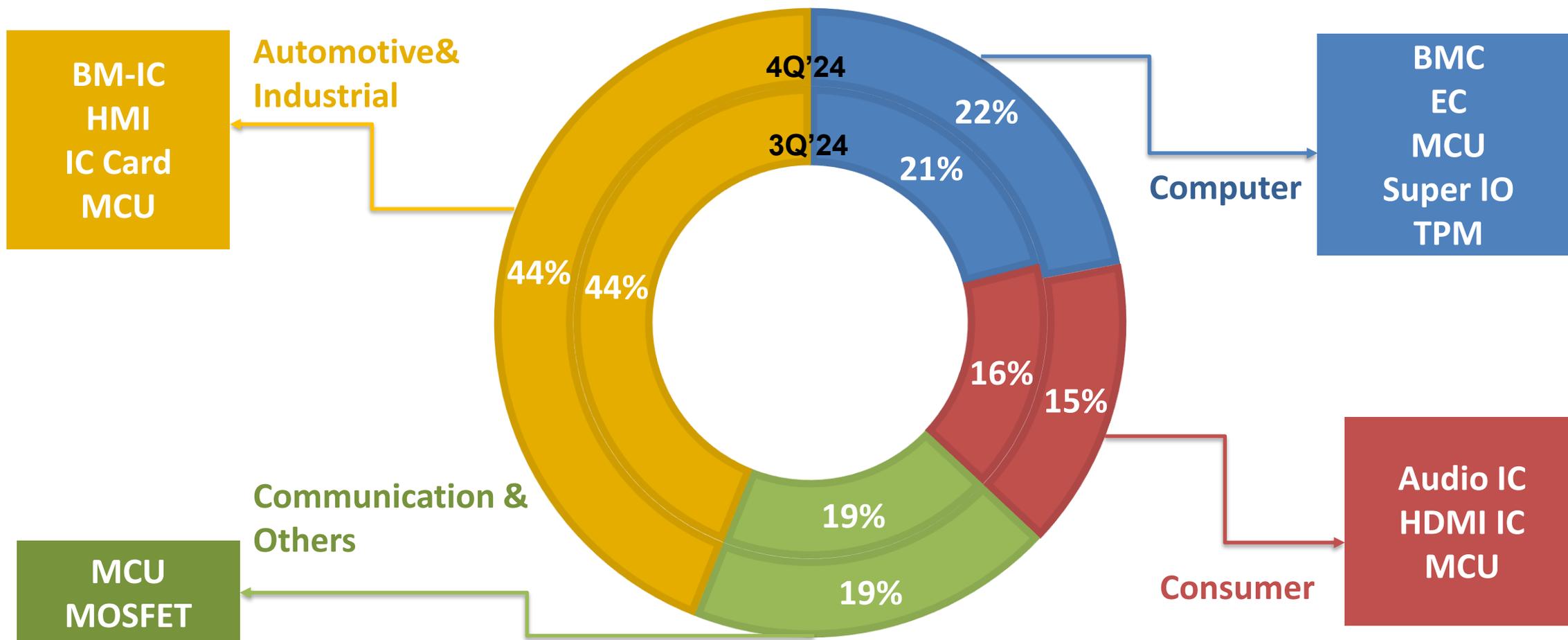
Nuvoton 4Q'24 Business Update (1)

Automotive & Industrial

❖ Design-win of a motor driver IC for 5G Base Transceiver Station to Japanese customer

❖ Design-in of a motor driver IC for heated and cooled vehicle seat to American customer

❖ Launched the free Arm® Keil® MDK Nuvoton Edition to enhance developer efficiency

❖ Low-power MCU M2L31 series with built-in ReRAM memory has been honored with the 2024 EE Awards Asia - Product Award (Taiwan), receiving the title "Best MCU/Driver IC of the Year"

Nuvoton 4Q'24 Business Update (2)

Computer

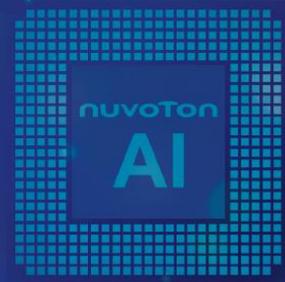❖ Launched a M-PESTI (Modular-Peripheral Sideband Tunneling Interface) chip, which had passed Intel validation

Consumer

❖ Design-in of the Arm® Cortex® M7 core inverter MCU for heat pump to new Turkish customer

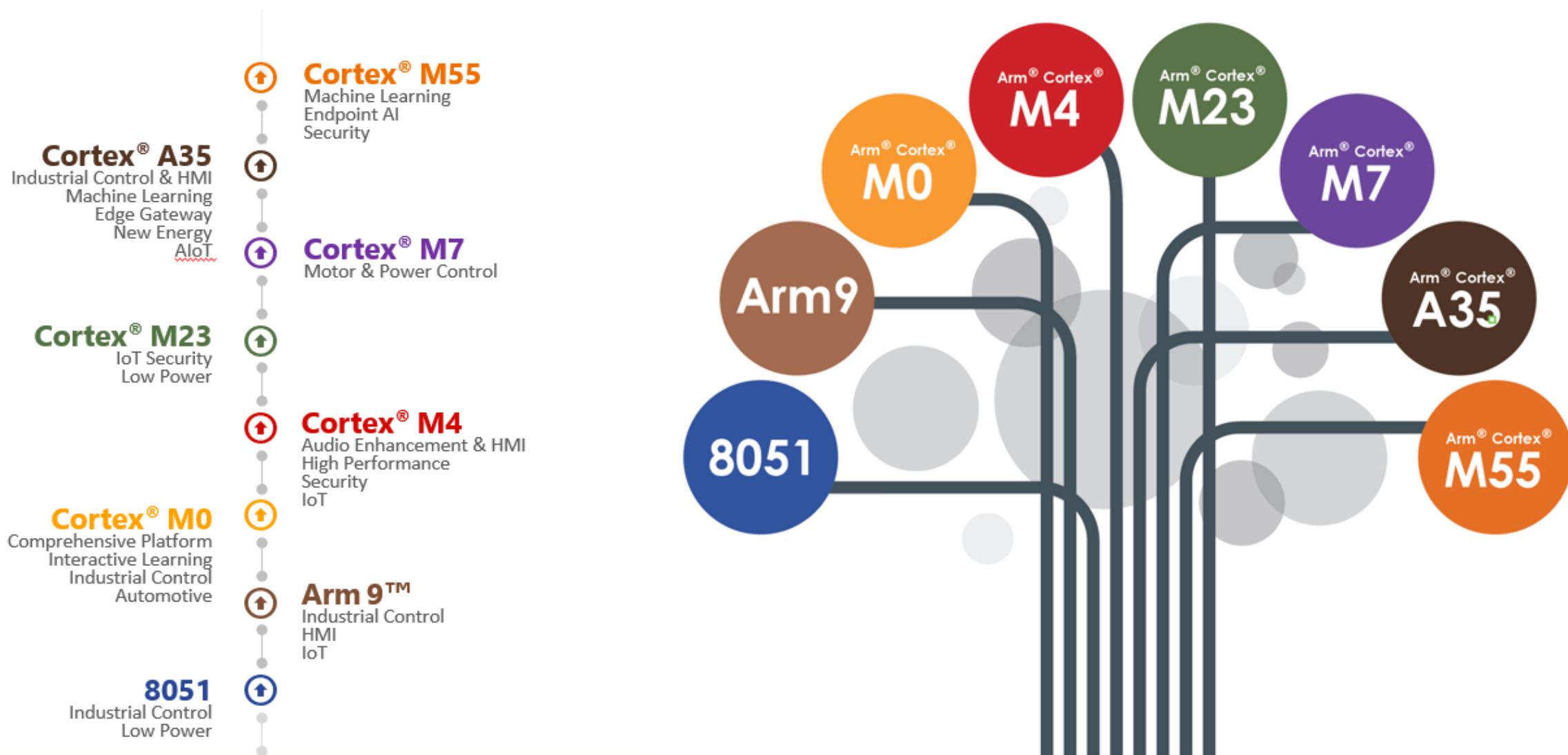❖ Design-in of the Arm® Cortex® M7 core inverter MCU for new commercial air conditioner to Korean customer

Nuvoton AI Solution

The Intelligent Evolution

Nuvoton Technology Corporation
Microcontroller Business Group
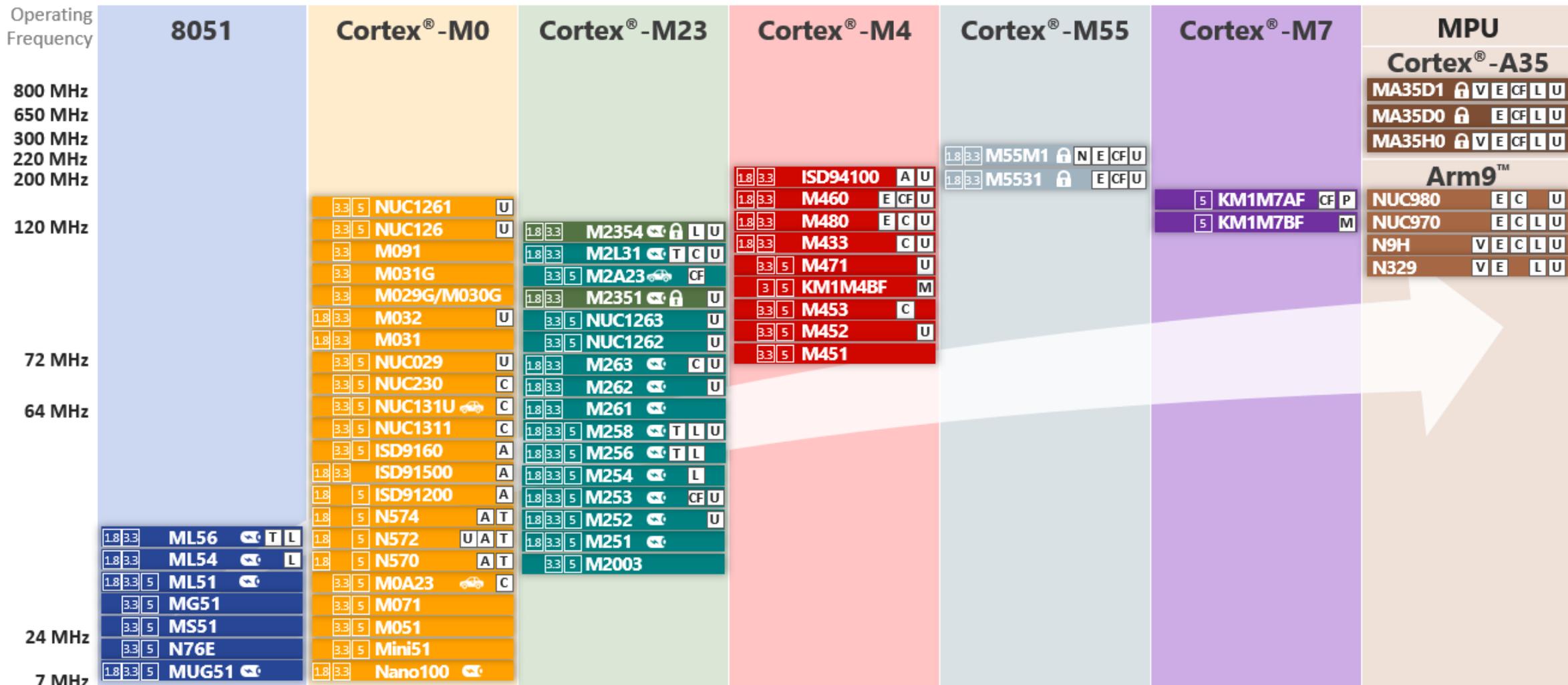**Walter Tseng**
Feb. 18th, 2025

NuMicro® MCU Cores

Cortex® M55
Machine Learning
Endpoint AI
Security

Cortex® A35
Industrial Control & HMI
Machine Learning
Edge Gateway
New Energy
AIoT

Cortex® M7
Motor & Power Control

Cortex® M23
IoT Security
Low Power

Cortex® M4
Audio Enhancement & HMI
High Performance
Security
IoT

Cortex® M0
Comprehensive Platform
Interactive Learning
Industrial Control
Automotive

Arm 9™
Industrial Control
HMI
IoT

8051
Industrial Control
Low Power

Microcontroller Platform

Feature

A Audio | C CAN | CF CAN FD | E Ethernet | L LCD | T Touch Key | U USB | V Video Codec | M Motor | P Power | N NPU

Low Power | TrustZone | AEC-Q100 | **Operating Voltage** | 1.8 1.8V | 2.4 2.4V | 3.3 3.3V | 5 5V

Operating Frequency	8051	Cortex®-M0	Cortex®-M23	Cortex®-M4	Cortex®-M55	Cortex®-M7	MPU

Cortex®-A35

	MA35D1	V E CF L U
	MA35D0	E CF L U
	MA35H0	V E CF L U

Arm9™

- 800 MHz
- 650 MHz
- 300 MHz
- 220 MHz
- 200 MHz
- 120 MHz
- 72 MHz
- 64 MHz
- 24 MHz
- 7 MHz

8051
- 1.8 3.3 ML56 T L
- 1.8 3.3 ML54 L
- 1.8 3.3 5 ML51
- 3.3 5 MG51
- 3.3 5 MS51
- 3.3 5 N76E
- 1.8 3.3 5 MUG51

Cortex®-M0
- 3.3 5 NUC1261 U
- 3.3 5 NUC126 U
- 3.3 M091
- 3.3 M031G
- 3.3 M029G/M030G
- 1.8 3.3 M032 U
- 1.8 3.3 M031
- 3.3 5 NUC029 U
- 3.3 5 NUC230 C
- 3.3 5 NUC131U C
- 3.3 5 NUC1311 C
- 3.3 5 ISD9160 A
- 1.8 3.3 ISD91500 A
- 1.8 5 ISD91200 A
- 1.8 5 N574 A T
- 1.8 5 N572 U A T
- 1.8 5 N570 A T
- 3.3 5 M0A23 C
- 3.3 5 M071
- 3.3 5 M051
- 3.3 5 Mini51
- 1.8 3.3 Nano100

Cortex®-M23
- 1.8 3.3 M2354 L U
- 1.8 3.3 M2L31 T C U
- 3.3 5 M2A23 CF
- 1.8 3.3 M2351 U
- 3.3 5 NUC1263 U
- 3.3 5 NUC1262 U
- 1.8 3.3 M263 C U
- 1.8 3.3 M262 U
- 1.8 3.3 M261
- 1.8 3.3 5 M258 T L U
- 1.8 3.3 5 M256 T L
- 1.8 3.3 5 M254 L
- 1.8 3.3 5 M253 CF U
- 1.8 3.3 5 M252 U
- 1.8 3.3 5 M251
- 3.3 5 M2003

Cortex®-M4
- 1.8 3.3 ISD94100 A U
- 1.8 3.3 M460 E CF U
- 1.8 3.3 M480 E C U
- 1.8 3.3 M433 C U
- 3.3 5 M471 U
- 3 5 KM1M4BF M
- 3.3 5 M453 C
- 3.3 5 M452 U
- 3.3 5 M451

Cortex®-M55
- 1.8 3.3 M55M1 N E CF U
- 1.8 3.3 M5531 E CF U

Cortex®-M7
- 5 KM1M7AF CF P
- 5 KM1M7BF M

Arm9™
- NUC980 E C U
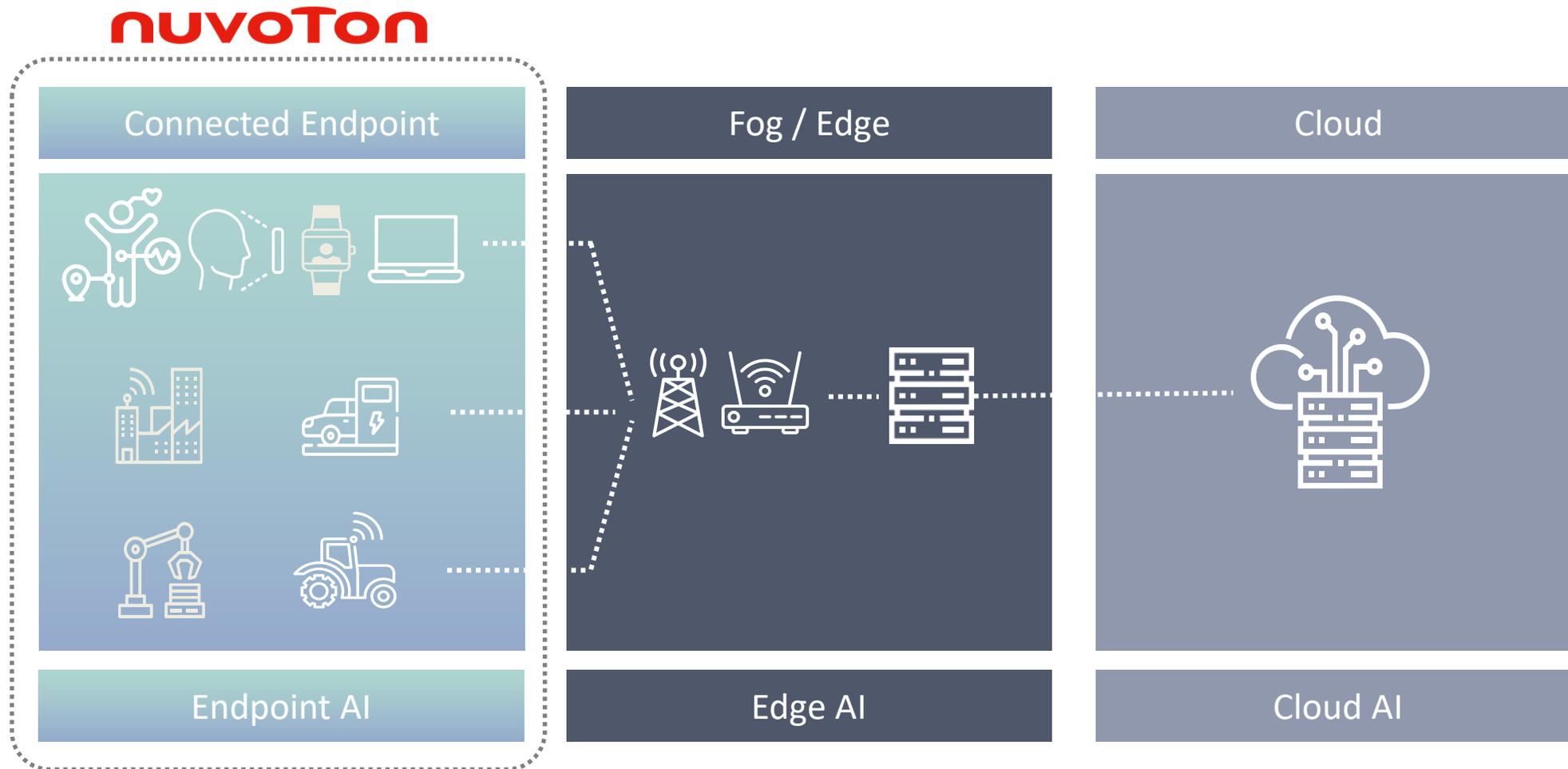- NUC970 E C L U
- N9H V E C L U
- N329 V E L U

What is Nuvoton AI benefit from?

The Intelligent Evolution
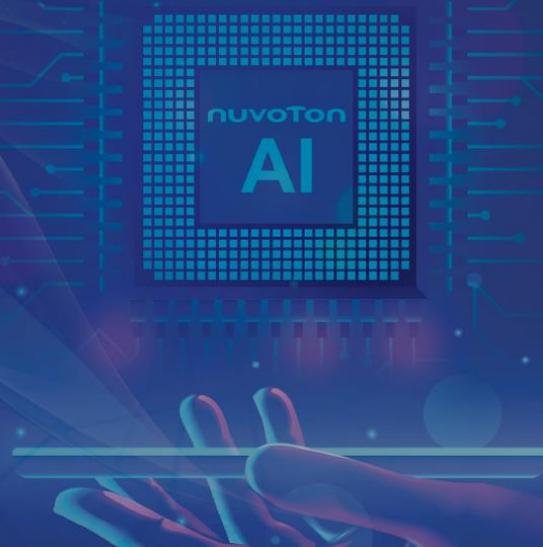
AI Deployment Layers: Endpoint, Edge, and Cloud

The global opportunity for Endpoint AI Platform

Objection Detection	Image Classification	Keyword Spotting (KWS)	Gesture Recognition	Facial Recognition
CAGR of 25.6%	CAGR of 14.14%	CAGR of 14.6%	CAGR of 19.04%	CAGR of 14.9%
$18.84 billion by 2030	$9.57 billion by 2030	$53.67 billion by 2030	$82.41 billion by 2030	$15.84 billion by 2030
Future Data Stats and Nuvoton estimate	Mordor Intelligence	Grand View Research	Precedence Research	Research and Markets

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Objection Detection - Warehouse Management System
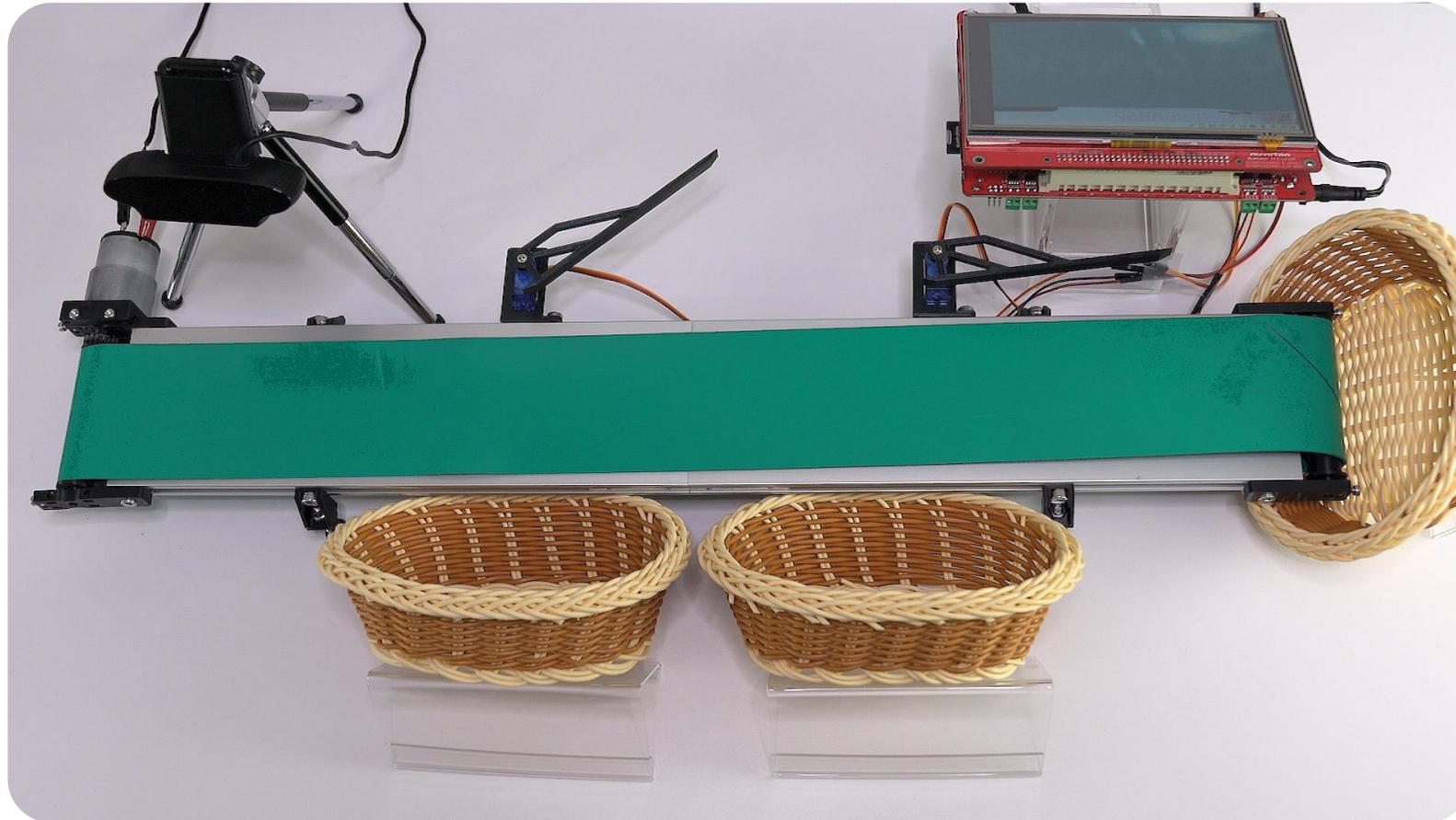
Image Classification- AI Medicine Classifier

NuMaker-M55M1

Keyword Spotting (KWS) - Voice Control Scope

- trigger
- run
- stop
- zoom in/out
- reset

Gesture Recognition - Gesture Sensing
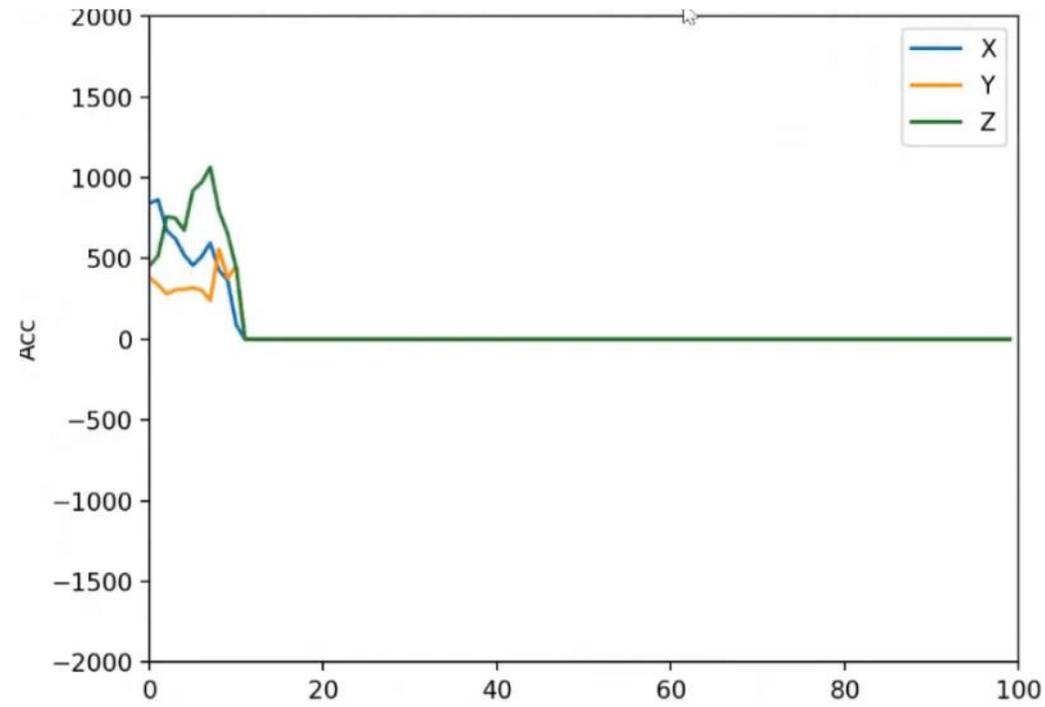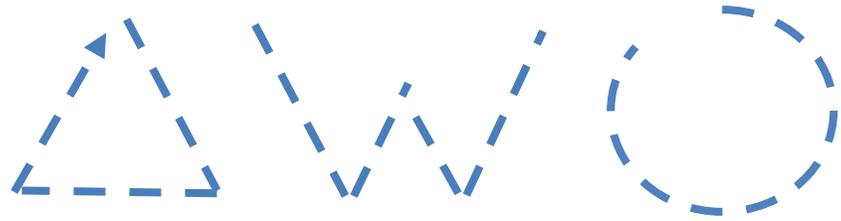
Facial Recognition
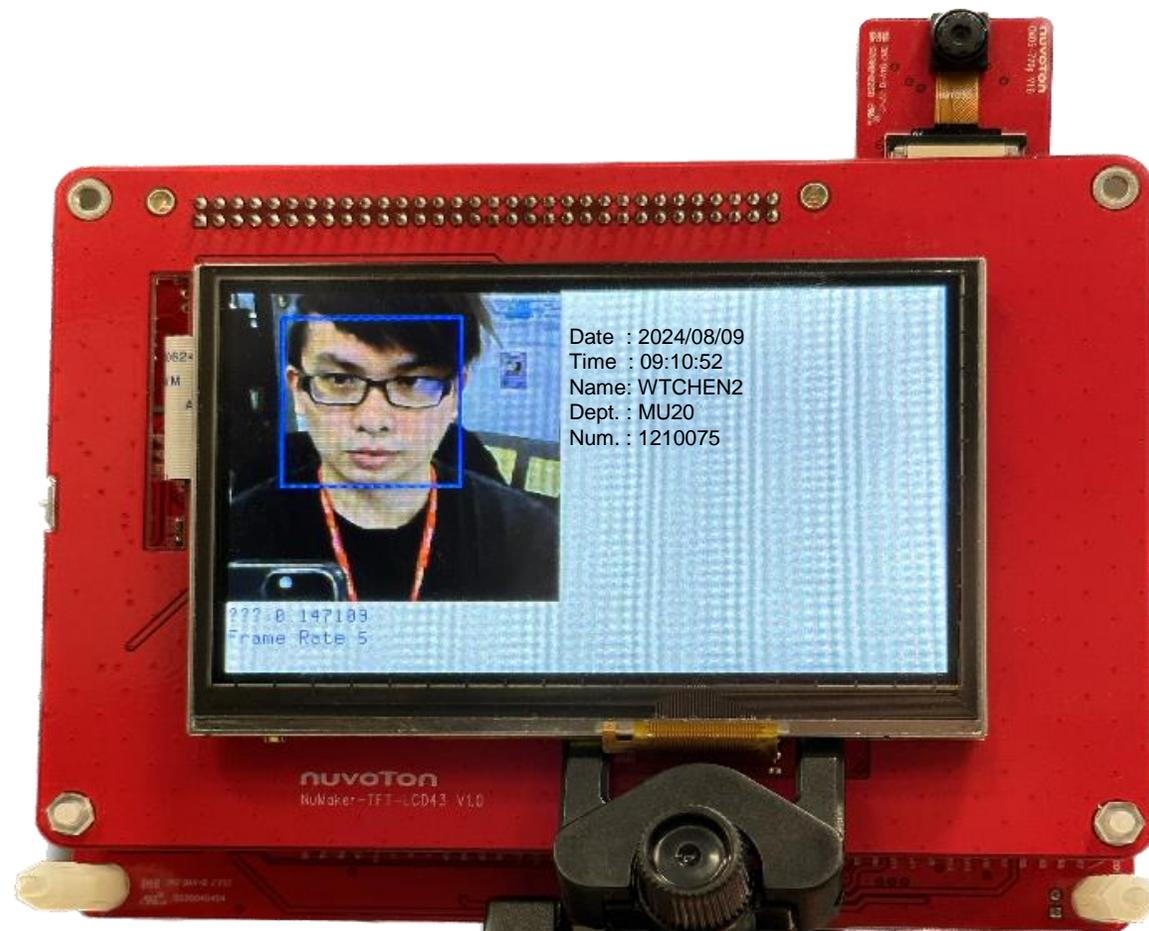
# Nuvoton Leads the ML Revolution with an Integrated Ecosystem

M55M1 MCU

M467 MCU

MA35D1 MPU

www.nuvoton.com/a

NuEzAI Tool

NuEdgeWise ML IDE

TensorFlow
Training framework

The Vela compiler
NPU Compiler

TensorFlow Lite
Inference framework

CMSIS-NN
CPU ML Library

MCU/MPU

ML Tool / Software

NuEzAI Tool – Support Google Teachable Machine

- **No AI Knowledge Needed**

- **No-Code Environment**

- **No Driver Installation**

- **Easy Model Deployment in 5 Minutes**

- **AI Experience Development Tool**
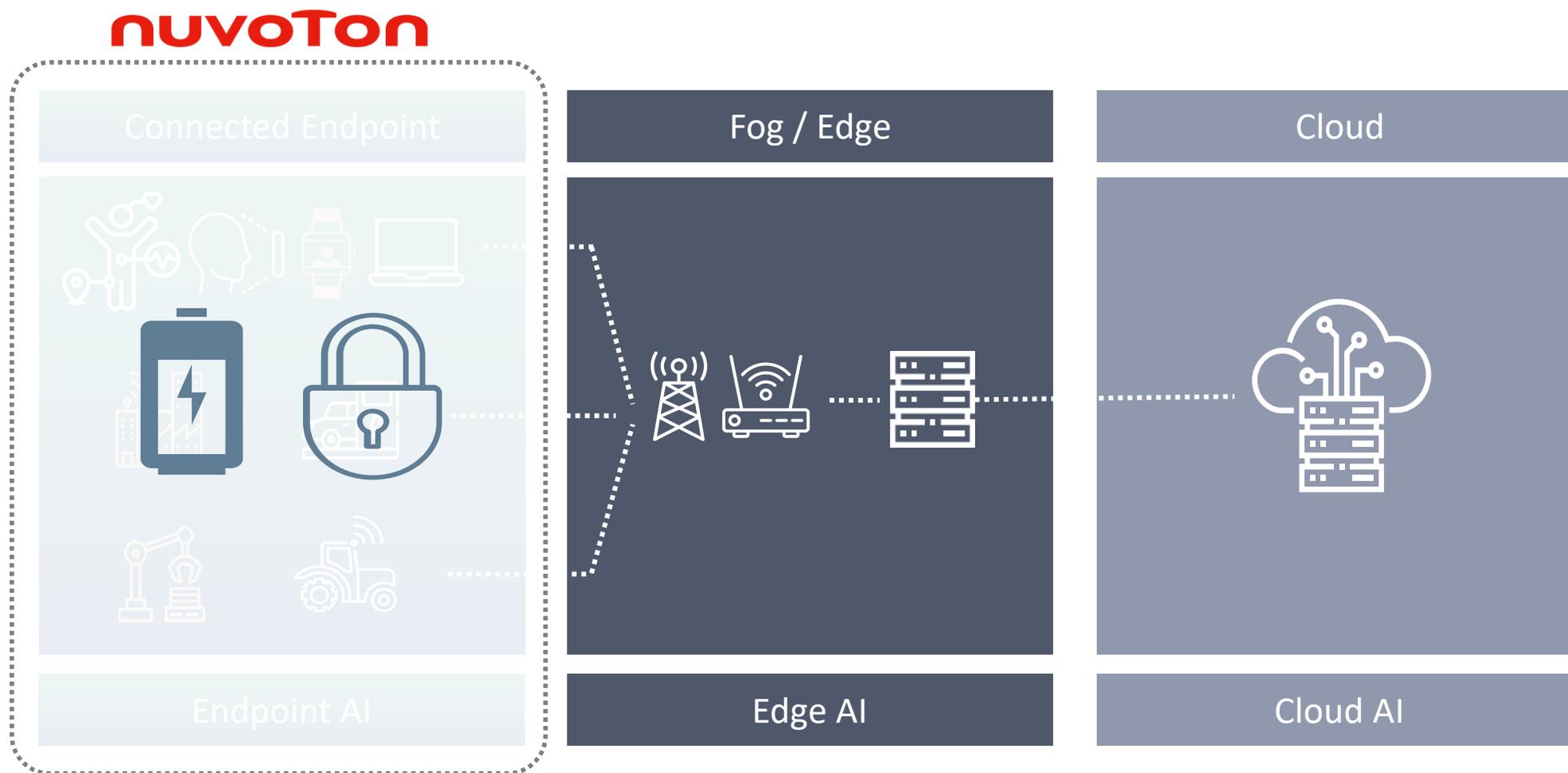
NuEzAI Tool – Customize Your Own AI in 5min
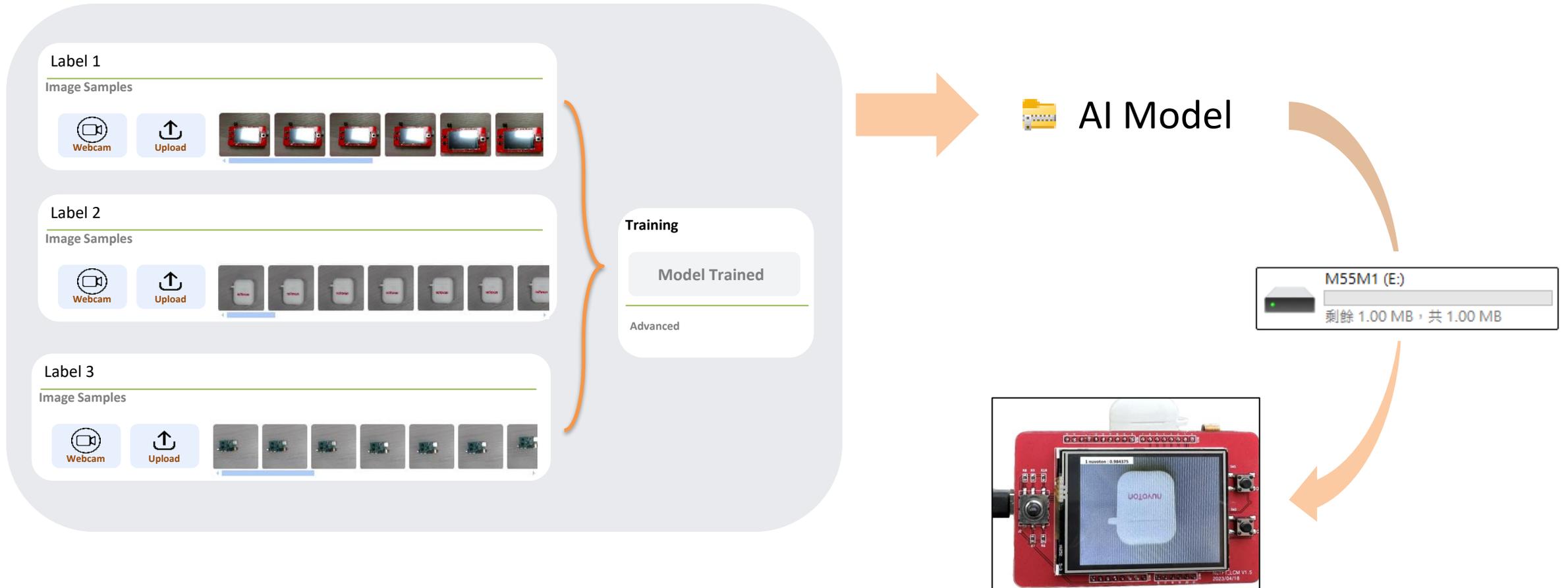
What's unique about Nuvoton AI?

The Intelligent Evolution
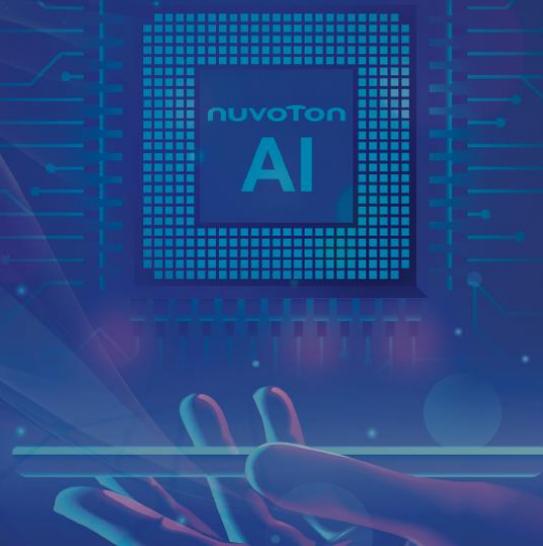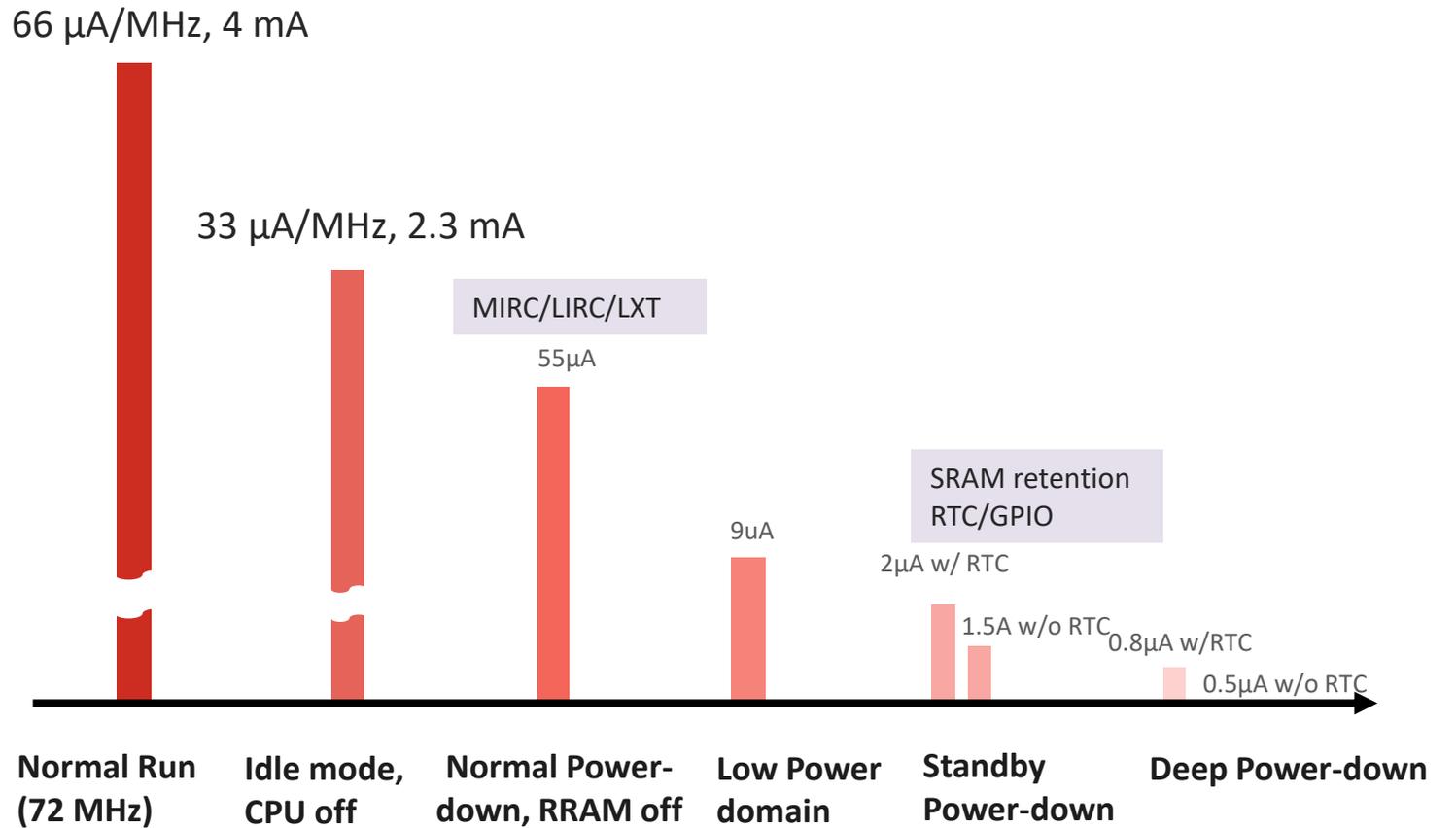
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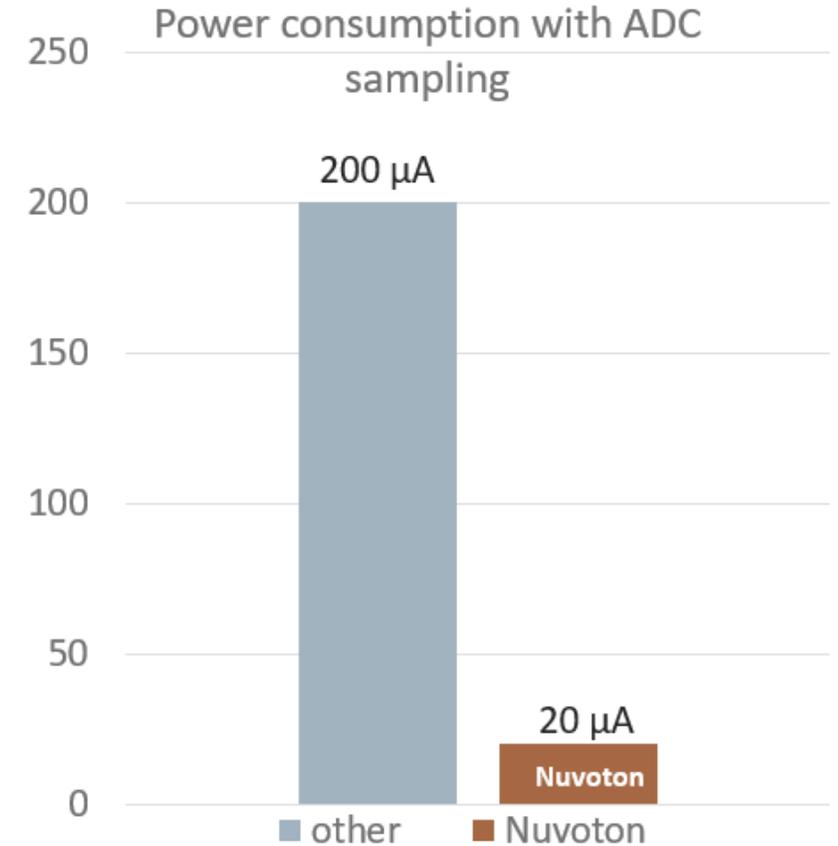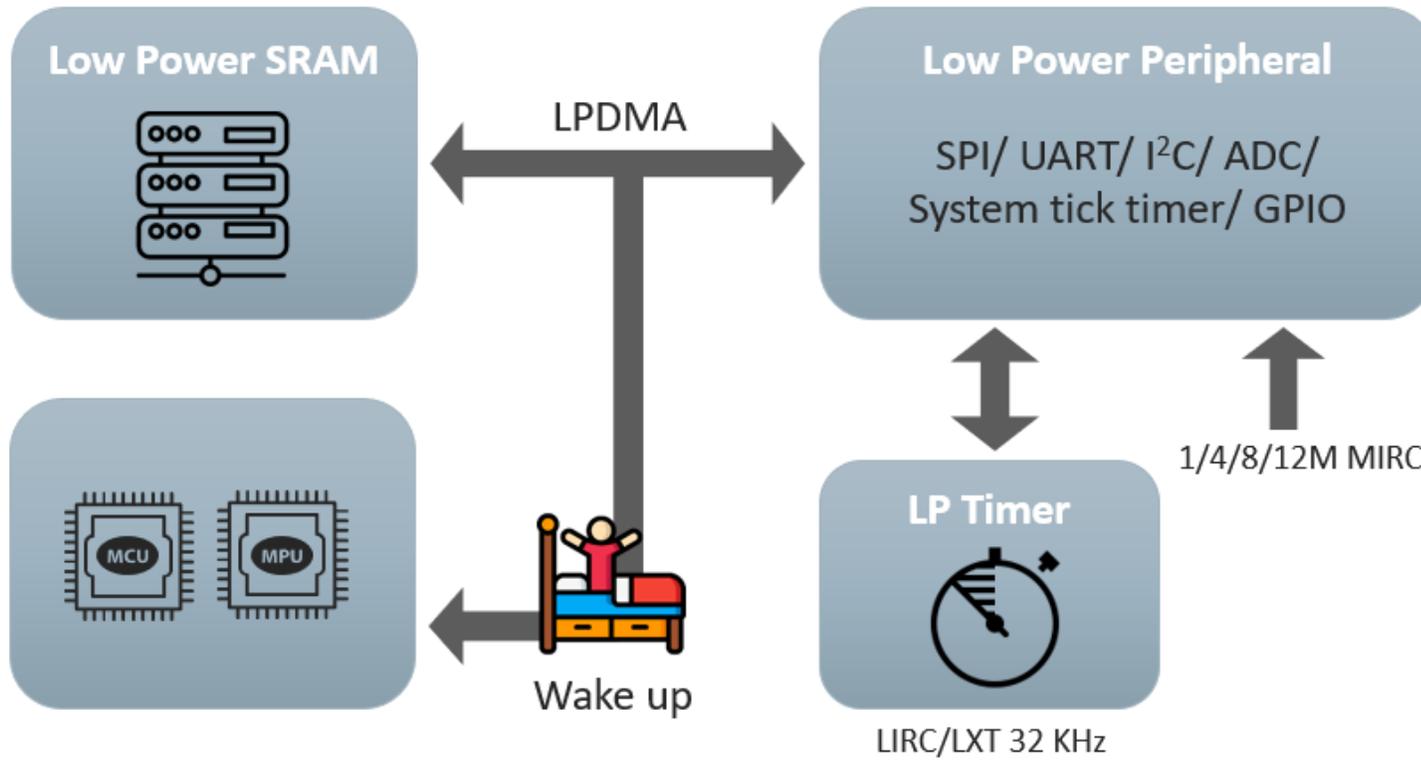# What Makes NuMicro the Leader in Low Power Efficiency?

Low Power

11 power modes
Independent Low Power domain

66 µA/MHz, 4 mA

33 µA/MHz, 2.3 mA

MIRC/LIRC/LXT

55µA

9uA

SRAM retention
RTC/GPIO

2µA w/ RTC

1.5A w/o RTC

0.8µA w/RTC

0.5µA w/o RTC

Normal Run (72 MHz) | **Idle mode, CPU off** | **Normal Power-down, RRAM off** | **Low Power domain** | **Standby Power-down** | **Deep Power-down**

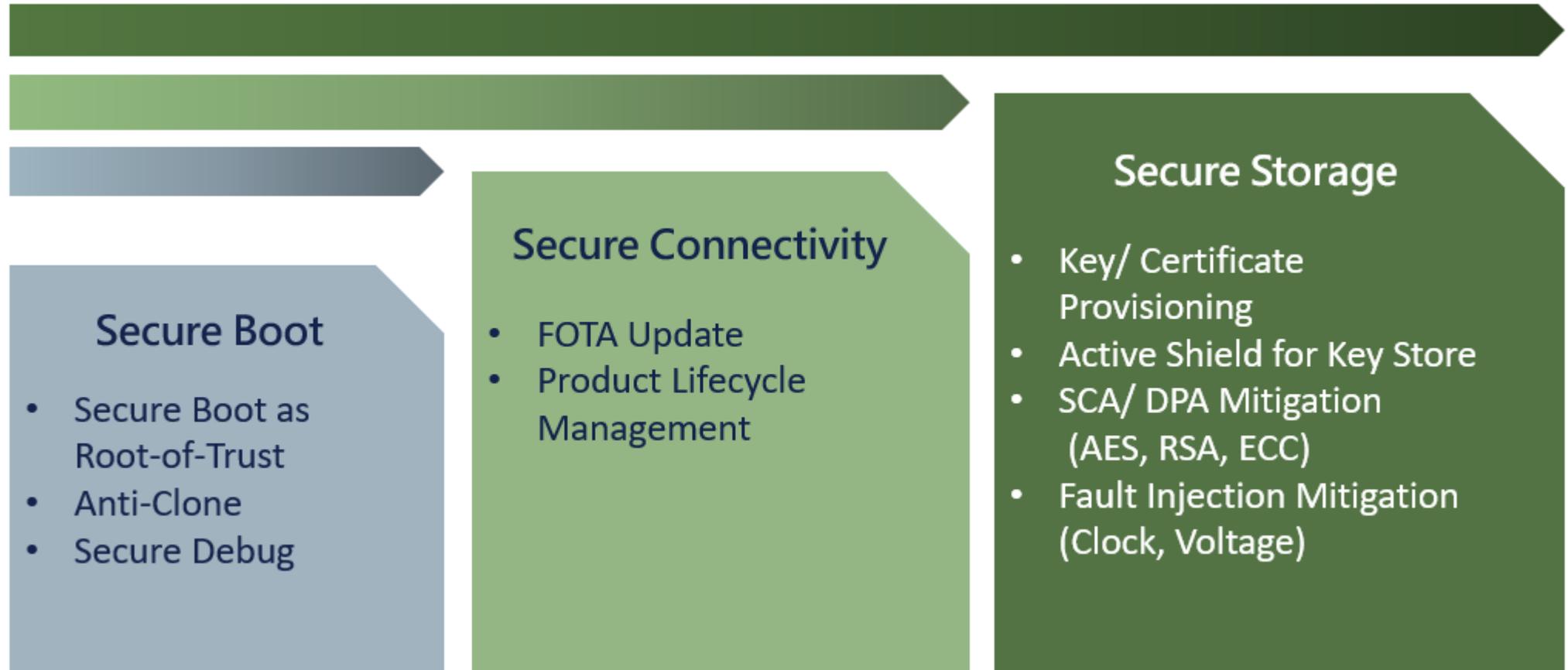# NuMicro® Saves MCU Power Consumption by 90%

What Makes NuMicro® the Best Choice for Comprehensive Security?

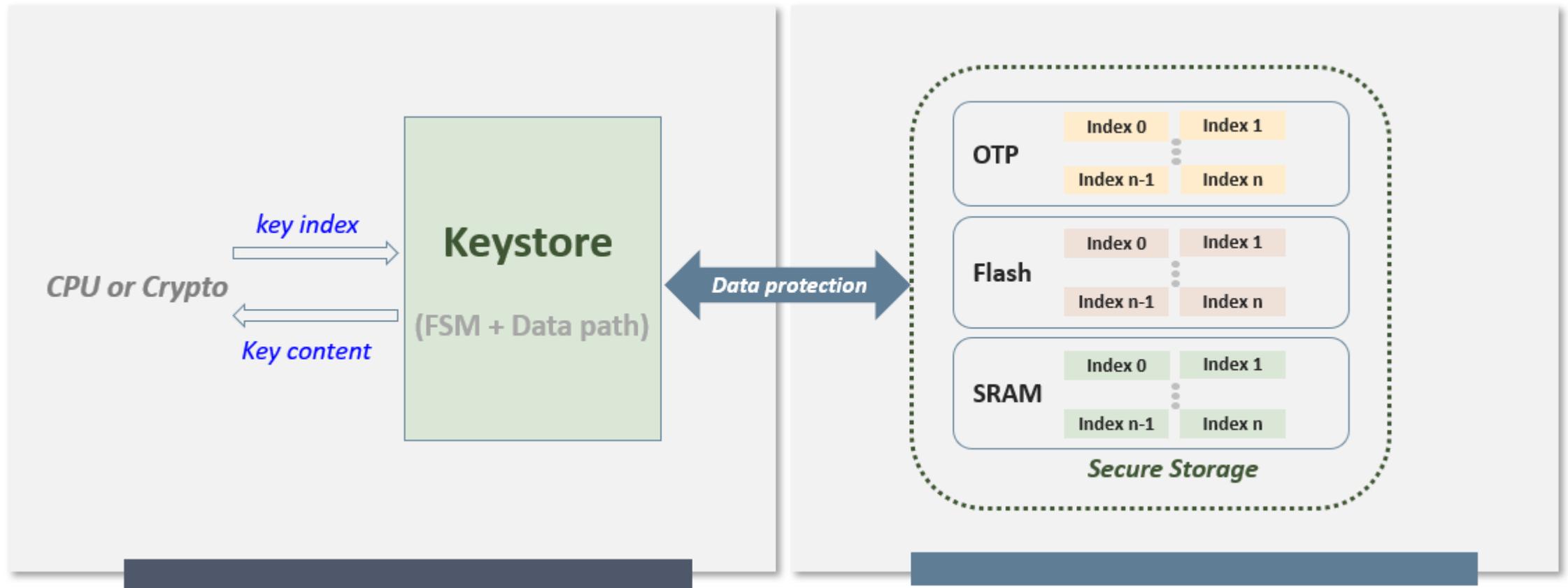- *NuMicro® Secure Microcontroller Platform: Secure Boot, Secure Connectivity, Secure Storage*

Level 3

Level 2

Level 1

Secure Boot

- Secure Boot as Root-of-Trust
- Anti-Clone
- Secure Debug

Secure Connectivity

- FOTA Update
- Product Lifecycle Management

Secure Storage

- Key/ Certificate Provisioning
- Active Shield for Key Store
- SCA/ DPA Mitigation (AES, RSA, ECC)
- Fault Injection Mitigation (Clock, Voltage)

What Makes Nuvoton Hardware Your Trusted Choice?

- The Key Store is a secure hardware module for managing cryptographic keys. It can provide functions such as key storage, creation, access, erasure and revocation in SRAM, flash memory and OTP.

Questions & Answers

Nuvoton Company Website: www.nuvoton.com