

nuvoTon

Be a hidden champion in providing sustainable semiconductors to enrich human life.

WHO WE ARE

Nuvoton Technology Corporation (Nuvoton) was founded to bring innovative semiconductor solutions to the market. Nuvoton was spun off as a Winbond Electronics affiliate in July 2008 and went public in September 2010 on the Taiwan Stock Exchange (TWSE).

Business Focus

Nuvoton focuses on the developments of microcontroller/audio, cloud security, battery monitoring, component and visual sensing ICs and has strong market share in Industrial, Automotive, Communication, Consumer and Computer markets. Nuvoton owns 6-inch wafer fabs equipped with diversified processing technologies to provide professional wafer foundry services. Nuvoton provides products with a high performance/cost ratio for its customers by leveraging flexible technology, advanced design capability, and integration of digital and analog technologies.

- Microcontroller
- Microprocessor
- Audio Solution
- Cloud Security
- Visual Sensing
- Power Component
- Power Electronics
- Battery & Automotive
- Laser & GaN
- Foundry

Global Expertise, Local Support

Nuvoton values long term relationships with its partners and customers and is dedicated to continuous innovation of its products, processes, and services. Nuvoton has established subsidiaries in the USA, China, Israel, India, Singapore, Korea, Japan and Germany to strengthen regional customer support and global management.

Nuvoton Technology Corporation
Headquarter / Hsinchu, Taiwan





Taiwan Headquarter
Global Office



2008 — Winbond spinoff

2010 — Publicly listed on Taiwan Stock Exchange

2015 — World's first security chip certified by Common Criteria, FIPS, and TCG

2020 — Acquired Panasonic Corporation's Semiconductor Business

2025 — Awarded Taiwan's Top 100 Sustainable Companies Award

One-Stop MCU + MPU + Audio Solution — From System Control to Sound Output

Nuvoton's MCU / MPU / Audio One-Stop Solution eliminates the complexity of integrating components from multiple suppliers. By offering system control (MCU/MPU) and Audio processing within a single, cohesive ecosystem, Nuvoton enables partners to shorten development timelines, reduce integration risk, and ensure consistent quality — from initial prototyping through mass production.



Complete Portfolio

From ultra-low-power MCUs to high-performance MPUs, combined with Audio devices— everything under one roof.

Faster Time-to-Market

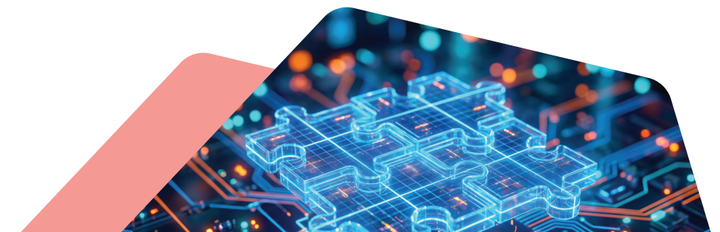
Pre-integrated reference designs, SDKs, and tuning tools reduce development cycles and accelerate product launch.

Simplified Supply Chain

One partner, one contract, one point of contact — minimizing sourcing risk and cross-vendor compatibility issues.

Reliable & Proven

High quality standards across the entire product line, backed by 30+ years of semiconductor experience.



NuDeveloper Ecosystem

Make engineers 'jobs easier

Beyond a rich portfolio, our complete ecosystem simplifies and accelerates your entire development journey.

All Round Tool Chain
Fully support, Reduce total cost

Hardware
Complete Development / Programming Tools

NuMaker® EVB
- Verification

Debugger and Programmer
- 1 to 1 Debugger & Programmer
- Mass Production Programmer



Software
Development & Toolbox

IDE
- Keil-Supports all Cortex®-M FREE
- NuEclipse-8051 FREE
- VS Code-Cross Platform FREE
- IAR-Support

NuTools
- NuTool-PinView
- NuTool-PinConfigure
- NuTool-ClockConfigure
- LCDView



NuDeveloper Ecosystem

Simple
Low entry, Fast time to market

Code
BSP & Example Code

BSP
- Fit development platform
- Rich Drivers
- API compatible

Example Code
- Real case

Third-Party
3rd party resource

HMI: SEGGER emWin, emWin, Qt, LVGL, SQUARELINE STUDIO

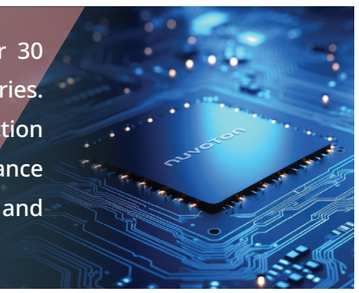
OS: RT-Thread, FreeRTOS, Linux, Zephyr

Application Resources & Expert Support
From tools to solutions

- Reference Design
- Team Support
- Video Center

Microcontroller / Microprocessor

Nuvoton is a leading global microcontroller provider with over 30 years of experience and a product presence spanning 60 countries. The comprehensive NuMicro® MCU platform offers a massive selection of cores, ranging from the classic 8-bit 8051 to high-performance 32-bit Arm® Cortex®-M series (M0, M23, M33, M4, M55, M7...) and advanced microprocessors such as the Arm9 and Cortex-A35.



01

High-Value Portfolio

Maximize ROI with 600+ cost-effective MCUs, delivering superior performance-to-cost ratios from 8-bit to Arm® Cortex®-M.

02

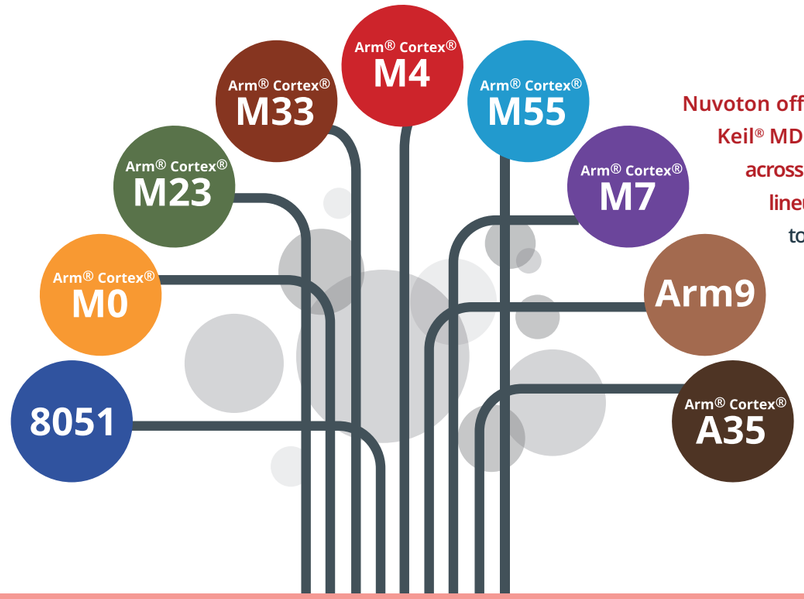
Robust Reliability and Immunity

Designed for harsh industrial and automotive environments, these MCUs feature high hardware immunity — reaching up to ±4.4 kV EFT and 8 kV ESD — and support wide operating temperatures from -40°C to +125°C.

03

Comprehensive Developer Ecosystem

The NuDeveloper Ecosystem simplifies the design process with a rich array of evaluation boards, specialized software tools (NuTool), and a commitment to product longevity of over 10 years.



Nuvoton offers the full-function Arm® Keil® MDK Nuvoton Edition for free across the entire Cortex®-M MCU lineup, providing comprehensive toolset at no additional expense.

Audio & Speech

The Joy of Innovation: High-Performance Sound Solutions

Nuvoton delivers a comprehensive Audio & Speech portfolio across six product families. Our Audio Converters span mono/stereo and ultra-low-power CODECs, ADCs, DACs, 24-bit precision and voiceband CODECs, backed by Class-AB, Class-D and line-driver Audio Amplifiers. Our Audio DSP ICs combine premium tuning from Waves MaxxAudio® with the world's first smart amplifier using Klippel (KCS) nonlinear speaker control. Our Cortex®-M Audio SoCs add noise reduction, echo cancellation, far-field pickup and offline voice recognition, while our Speech Controllers, ISD ChipCorder® devices and flagship Smart Buzzer deliver clear voice prompts, recording and playback. From voice capture to loud, protected sound, we deliver audio exactly the way it was meant to be heard.

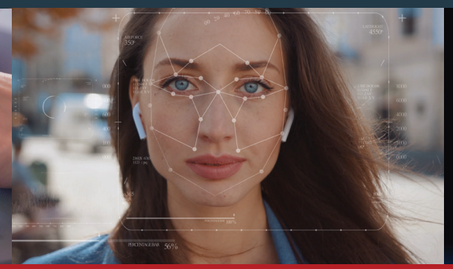
Key Product & Solution Architecture

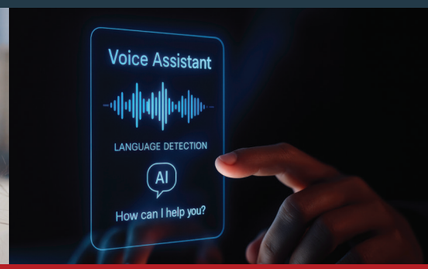
- Speech Controllers
- Audio Converters
- Audio Amplifiers
- Audio SoCs
- Audio DSP
- ISD ChipCorder

Targeted Market Applications

Smart Home & Consumer Audio *TV, soundbars & smart speakers*	Loud, protected sound with KCS smart amplifiers & Waves MaxxAudio®
Security & Intercom *IPCAM, video doorbells & intercoms*	Clear two-way voice with noise & echo cancellation
Voice-Enabled Devices *Appliances, wearables & toys*	Offline voice recognition, prompts & playback







Automotive & Mobility

Nuvoton co-creates new value to enable sustainable mobility and societal transformation.

As mobility evolves, so do our cities, industries, and daily lives. As a strategic partner in the new era of electrified mobility, Nuvoton co-creates new value to enable sustainable mobility and societal transformation.



Automotive Smart Cockpit

Contributing to the comfort and safety of drivers and passengers, improving UX.

3D ToF Sensor

Personalized cabin safety and comfort — adaptive airbags, 3D sound control, and gesture operation — are advancing fast. Our robust sensing stays reliable even under changing light and temperature.

Automotive HMI display LSI Gerda™

Gerda™ delivers safe and comfortable HMI solutions with rich image processing and security functions. Its large embedded RAM reduces component count and cost, while 2.5D graphics and wide video input interfaces support advanced automotive HMI applications.



Automotive Electrification & Power

Realizing sustainable mobility through high-precision battery sensing technology.

Battery Monitoring IC

A high-performance lineup — automotive-qualified, stackable, and with built-in current sensor — for EVs and HEVs, energy storage systems, and e-bikes.

Power Management

Nuvoton enables sustainable energy infrastructure and societal transformation.

The rise of AI and digital transformation is reshaping how the world consumes energy. As a strategic partner in the new era of intelligent power, Nuvoton enables sustainable energy infrastructure and societal transformation.

Power Solution for AI Server

Contributing to efficient, reliable, and sustainable energy infrastructure for the AI-powered future.

Power electronics control MCU

High-performance motor control and digital power for next-generation AI data centers. NuMotor™ MCUs with fast feedback control, advanced current regulation, and MCP technology reduce heat, simplify design, and improve efficiency.

Motor Driver IC

As data centers pursue higher density and efficiency, 48V systems and compact 1U servers matter more. Our 48V Direct Drive Motor Driver IC enables efficient, compact fan designs with low power, low vibration, and reliable cooling.

Battery Monitoring IC

AI and cloud growth demand reliable power. Advanced battery monitoring supports high-voltage battery and energy-storage systems for greater efficiency, safety, and continuity.



MOSFET & Laser Diode

Nuvoton co-creates smarter, more efficient systems across industries and everyday life.

Technology is advancing at an unprecedented pace, driving innovation across industries and everyday life. Through its diverse semiconductor portfolio, Nuvoton empowers customers to build smarter, more efficient, and more reliable systems.

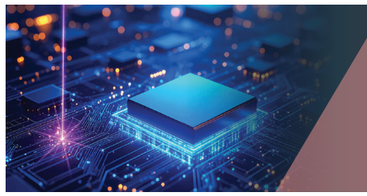


Compact Power Switching Solutions

Higher power efficiency, miniaturization, and reliability in next-generation electronic devices.

CSP MOSFET

High-performance power MOSFETs built on Chip Scale Package (CSP) technology for space-constrained uses — Li-ion battery protection, automotive switching, and wearables. Ultra-low on-resistance down to 0.85 mΩ, ultra-compact size down to 0.6 × 0.6 mm, excellent thermal performance, and failure rates as low as one-thirtieth of conventional resin-molded packages.



Advanced Laser Diode Solutions

Enabling high-performance optical applications through proven laser technology and broad wavelength expertise.

Laser Diode

With 40+ years of innovation and over 3 billion laser light sources shipped for optical discs, Nuvoton is a leading laser diode company. Deep expertise in GaN- and GaAs-based materials spans UV to IR, powering cutting-edge optical applications.

Cloud & Security

Client Computing

- EC. SIO. TPM. Fan Driver
- USB4 Re-timer
- Rich peripheral of PC application

Data Center & Server

- BMC. SMC
- TPM
- RTC
- PCIE Re-timer
- Peripheral of cloud application

Edge Computing & Networking

- eBMC
- TPM
- IO

XR

- Multi-Sensing Bridge IC





Photo by Jeffrey Cheng

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Product Selection Guide

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