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# AI on the Edge: NEXCOM Launches NexAIoT NISE 54 Industrial Edge AI Gateway

## *Full M.2 Support, 3x 2.5GbE TSN LAN, USB Type-C Power up to 80W*

**New Taipei City, Taiwan – September 11, 2024 –** NEXCOM subsidiary, NexAIoT, is pleased to announce availability of the NISE 54 Industrial Edge AI Gateway for high-performance edge gateway applications. Powered by Intel Atom® Amston Lake or Alder Lake CPUs, the NISE 54 gateway supports up to 16GB of DDR5-4800MHz SO-DIMM memory with In-Band Error Correction Code (IBECC) capability, to boost multitasking performance, reliability, and safety. Applications include industrial gateways, edge AI computing, factory automation, and embedded controllers. The NISE 54 will be available by the start of the Embedded World North America event in Austin, Texas, USA from October 8th to 10th, 2024.

### Bringing AI to the Edge

Redefining industrial gateways with edge AI is a significant leap forward in industrial applications. The NISE 54 gateway brings AI to the edge, with deep learning inference capabilities, including integrated Intel UHD Graphics up to 32EUs (Execution Units), Intel Deep Learning Boost (Intel DL Boost), Intel Advanced Vector Extensions (Intel AVX2) with INT8 support, and OpenVINO toolkit support.  
  
Edge gateways like the NISE 54 act as intermediaries between industrial devices and the cloud or central data processing units, enabling data collection, processing, and real-time communication. By integrating advanced AI capabilities and edge computing into these gateways, they transcend their traditional roles, offering real-time data processing, predictive analytics, and enhanced decision-making at the edge. The NISE 54 makes this vision a reality.

### Versatile M.2 Storage and Connectivity

The NISE 54’s comprehensive M.2 interface support gives enhanced compatibility, versatility, performance, and connectivity – in a compact, industry standard form. This includes support for M.2 2242/2280 Key B for SATA storage, M.2 2230 Key E for Wi-Fi/Bluetooth, and M.2 2242/3042/3052 Key B for 5G/LTE/SATA.

### Compact USB Type-C Power and Display

USB-C Power Delivery (PD) is revolutionizing industrial applications. The NISE 54-A03 product variant supports power delivery of up to 80W through its USB-C port, providing efficient power transfer and powering multiple peripherals with a single cable. USB-C with PD can power and control very high-resolution displays, enabling dynamic and interactive user interface control and digital signage.

### Outstanding Connectivity, Security and Reliability

The NISE 54 easily handles high-performance, low-power edge applications, running 24/7. With support for Intel Time Coordinated Computing (TCC) and Time Sensitive Networking (TSN), the NISE 54’s three 2.5Gbe TSN LAN ports are idea for the real-time critical workloads demanded by applications such as PLC gateways, robotics control, edge AI, and more. The NISE 54’s onboard TPM 2.0 (Trusted Platform Module) provides advanced security to safeguard data and ensure system integrity. NISE 54 can be operated in temperatures ranging from -40°C to 60°C (-40°F to 140°F) for full operability in harsh industrial environments.

### Find Out More

For more details of the NISE 54 Industrial Edge AI Gateway from NEXCOM and NexAIoT, please visit: <https://www.nexcom.com/Products/iot-automation-solutions/industrial-fanless-computer/atom-compact/nise-54>

### About NexAIoT

NexAIoT Co., Ltd. was incorporated in 2014 and is a subsidiary of NEXCOM Group, committed to delivering Industry 4.0 total solutions to clients globally, which includes iAutomation (Level 1), M2M Gateway (Level 2), IoT Edge (Level 3) and Cloud-based Enterprise War Room (Level 4) of the Industrial IoT ecosystem. Various systems in Levels 1 to 4 have been successfully integrated by NexAIoT and implemented in the iAT2000 system, which is a total solution for Industry 4.0 based on an open architecture and industry cloud-based SCADA System. NexAIoT continues to build up the AIoT ecosystem toward ESG transformation, meeting the diverse services of its global clientele with innovation and sustainability. For more information, please go to <https://www.nexaiot.com/>

### About NEXCOM

NEXCOM, founded in 1992 and headquartered in Taiwan, stands as a distinguished global leader in edge computing and industrial IoT solutions. Demonstrating an unwavering commitment to excellence, NEXCOM provides integrated services encompassing SD-Edge Computing (software-defined edge computing) and cutting-edge MOM (manufacturing operations management) platforms. Its comprehensive solutions include network and communication, mobile computing, video surveillance, smart city and retail, digital healthcare, AIoT services, OT cybersecurity, industrial IoT, and robots – all developed based on open standards. NEXCOM continues to build up the AIoT ecosystem toward ESG transformation, meeting the diverse services of its global clientele with innovation and sustainability. For more information, please go to [www.nexcom.com](https://www.nexcom.com/).