

## Commell Newsletter February 2025



### **COMMELL Announces LE-37T Based on the Latest Intel® Atom® x7000RE Series (Amston Lake Platform)**

Taiwan Commate Computer Inc. (COMMELL), a global leader in industrial single board computers, has unveiled the LE-37T; 3.5-inch single board computer (SBC) powered by the Intel® Atom® x7000RE Series processor (Amston Lake, FCBGA1264). Designed for extreme environments, the LE-37T ensures reliable operation in temperatures ranging from -40°C to 85°C, making it ideal for industrial automation, embedded systems, and edge computing applications

[info@hightechnordic.com](mailto:info@hightechnordic.com)

+4610-177 58 00



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## High Performance with DDR5 Memory Support

The LE-37T is built on the latest Intel® Atom® x7000RE Series, with the x7433RE model featuring 6MB cache and a boost clock of up to 3.40 GHz. It supports DDR5-4800 memory via a single SO-DIMM slot, allowing expansion up to 32GB, ensuring excellent data processing and multitasking capabilities.

## 7nm Technology with Intel® UHD Graphics

Manufactured using Intel's cutting-edge 7nm process technology, the LE-37T features up to 8 cores, meeting diverse edge computing demands. Additionally, it integrates Intel® UHD Graphics with up to 32 execution units (EUs), enhancing both CPU and GPU performance for graphics-intensive applications.

## Versatile Display and Rich I/O Expansion

For display connectivity, the LE-37T is equipped with one HDMI, one LVDS, one DP++, and one Type-C (DP Alt. Mode), enabling triple simultaneous display support. The board also offers a comprehensive range of I/O interfaces, including:

- **USB Ports:** 2 x USB 2.0, 2 x USB 3.2 Gen2
- **Storage & Networking:** 1 x SATA III, 2 x 2.5GbE (Intel® I226, RJ45)
- **Serial Communication:** 2 x RS232/422/485, 4 x RS232
- **Additional Features:** 1 x 8-bit GPIO, 1 x HD Audio, 1 x 3W amplifier (supports 4Ω speaker), 1 x SMBus
- **Expansion Slots:** 1 x M.2 Key M (2280, PCIe Gen3, NVMe), 1 x M.2 Key E (2230, Wi-Fi & Bluetooth module support)
- **Power Input:** 9~35V DC

With its powerful computing performance, extensive connectivity options, and robust design, the LE-37T is a perfect solution for industrial automation, embedded computing, smart transportation, and edge computing applications.

[info@hightechnordic.com](mailto:info@hightechnordic.com)

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