

UP Squared Pro TWL, Next-Gen Edge Platform with Powerful Performance and Connectivity



Empowering Edge Innovation with High-Performance, Industrial-Ready Computing Platform

The UP Squared Pro TWL is the newest member of the UP Squared Pro series, featuring the Intel® Processor N-series and Intel® Core™ i3-N355 Processor for enhanced performance and energy efficiency. Equipped with dual 2.5GbE LAN, onboard TPM 2.0, and support for 5G modules, it delivers faster data throughput and secure connectivity. Expandability is easy with multiple USB 3.2 ports, GPIOs, COM ports, and a 40-pin HAT. Designed for edge workloads in retail, education, and automation, it also includes industrial-grade features such as TSN, TCC*, and in-band ECC*. Supporting high-resolution displays with Intel® UHD Graphics and offering up to 16GB LPDDR5 memory, the UP Squared Pro TWL empowers Pro Makers to develop powerful, scalable edge AI solutions.

Key Features



Powerful AI
Performance



5G Connectivity
Support



Flexible I/O &
Expandability



Industrial-grade
Features

Intel Products & Technology



Intel® Core™ Processors

Intel® Core™ processors deliver high-performance computing for various applications, offering advanced AI acceleration, power efficiency, and seamless multitasking across consumer, commercial, and industrial devices.

Learn More

[AAEON UP Squared Pro TWL](#)



Intel® Ethernet Controller

Intel provides data centers worldwide with innovative Ethernet components and solutions that are extensively tested for network interoperability, reliability, and performance.