

# PROFESSIONAL OVERCLOCKING: THE BOXX ADVANTAGE

**Overclocking matters—especially for your AEC software applications. Overclocking allows us to take computer hardware and give it a boost, resulting in significant performance increases. Everything runs faster, re-builds are noticeably faster, and because all processes are accelerated, designing and collaboration become more efficient and productivity increases.**

Computer enthusiasts have long taken advantage of the headroom in a processor and employed numerous methods to make the processor run at higher frequencies. This became an industry unto itself, also spawning various high-performance cooling solutions designed to keep the overclocked CPUs cool at these higher frequencies. CPU manufacturers like Intel and AMD initially turned a blind eye to this activity, focusing their attention on selling as many CPUs as possible to multi-national commodity builders. In turn, these big name computer manufacturers had no financial interest in building a PC with the right components to enable overclocking. Their focus was (and still is) on mass producing systems that would run a CPU at its rated spec.

Intel and AMD eventually recognized the importance of this growing market and began offering customers the option to set the frequency. (CPUs with an uncapped frequency have a “K” or “Extreme Edition” designation). This option allows BOXX engineers to qualify the processor at a higher frequency and therefore, provide unparalleled performance. We then select the enterprise-class components needed (motherboards with the correct number of power phases, premium memory, power supplies that deliver clean and efficient power, etc.) and match them with state-of-the-art liquid cooling to keep the CPU within a thermal envelope. This ensures rock-solid reliability and longevity—all backed by a 3-yr warranty and legendary technical support.

The most popular CPU used for AEC applications like Autodesk® Revit® is the 8th Generation Intel® Core™ i7 processor with a base clock speed up to 3.7GHz. With a clock speed up to 4.8GHz, our APEXX S3 is the fastest architecture & engineering workstation on the market. Unlike Intel® Turbo Boost Technology, which boosts the base clock speed on just two CPU cores, APEXX S3 operates at 4.8GHz across all 6 cores.

