

Automated Subtitle Creation in Grass Valley EDIUS 11 Accelerated by Intel NPU: A magic multi media Solution

Creating subtitles automatically with AI in the MMM BAT Server for EDIUS

About EDIUS 11

EDIUS 11 is a professional, nonlinear editing solution developed by Grass Valley and distributed globally by magic multi media. Designed for high-performance postproduction workflows, Grass Valley EDIUS 11 supports a wide range of formats and resolutions, including 8K and HDR. Known for its real-time editing capabilities without the need for rendering, EDIUS 11 also includes support for a wide variety of codecs and camera formats, making it a good solution for broadcast, documentary, and studio production workflows. Grass Valley EDIUS 11 comes with a new API structure to allow the addition of new features and tools. The MMM BAT Server for EDIUS uses this API structure and makes it easy to extend EDIUS 11 with new functions, many of them including AI support. As new AI models become available, the MMM BAT Server for EDIUS allows users to integrate them in their EDIUS 11 workflows.



Designed as a background task processor, the MMM BAT Server for EDIUS is a separate plugin developed by magic multi media (MMM) to work alongside Grass Valley EDIUS 11. The MMM BAT Server for EDIUS automates and offloads media-related operations—such as transcoding, rendering, and AI-driven tasks—within a Grass Valley EDIUS-based video production workflow, making it especially valuable in enterprise or broadcast environments. One of its standout features is the ability to automatically generate speech-to-text subtitles using AI. Developed in cooperation with Intel, this feature harnesses the power of the Intel® Core™ Ultra processor family and its built-in neural processing unit (NPU) to significantly boost AI speed and performance.

Creating captions and subtitles by hand is a time-consuming process for producers and video editors. This is of particular concern to editors in the European Union, where the European Accessibility Act (EAA) now mandates captions and subtitles for audiovisual media services to make them accessible for deaf and hearing-impaired individuals.

The MMM BAT Server for EDIUS, a free and significant enhancement to the Grass Valley EDIUS 11 video editing solution, enables a wide range of new and customizable functions and workflows, including AI. Among its many features, the MMM BAT Server for EDIUS offers a speech-to-text application that enables video editors and producers to spend far fewer hours making their content EAA-compliant and providing a better experience for all viewers. Features include:

- Automatic subtitle creation for 100 languages
- Automatic language translations
- Automatic text-to-speech voiceovers (in development)

The MMM BAT Server for EDIUS is not included in the standard Grass Valley EDIUS package and must be installed separately.



Automating subtitle creation

Automated subtitle creation is one of several preconfigured AI-powered applications built into the MMM BAT Server for EDIUS. The speech-to-text application can create automatic subtitles in 100 different languages with optional translation into English. AI-generated transcription, subtitling, and translation save users valuable time and help them keep up with increasing demand. This enables editors to accurately and automatically subtitle videos with optional English translations as opposed to performing the function manually.

The translation and subtitling services in the MMM BAT Server for EDIUS run locally on the Intel Core Ultra processor in the editor's AI PC without the need for cloud-based AI. In cooperation with Intel, the subtitle application was engineered with native support for Intel Core Ultra processors. The MMM BAT Server for EDIUS can shift AI workloads to the processors' built-in NPU, helping ensure power efficiency and providing a boost in AI performance while freeing up processing bandwidth in the CPU and GPU for other video editing tasks.

Professional video editing is a highly multitasked workload that typically uses every compute resource available. Enabling Grass Valley EDIUS to execute AI tasks on the NPU frees up demand on the CPU and GPU resources so they can execute other parallel tasks. Making use of all available resources at the same time helps ensure that users get the best possible performance from their Intel AI PC systems.

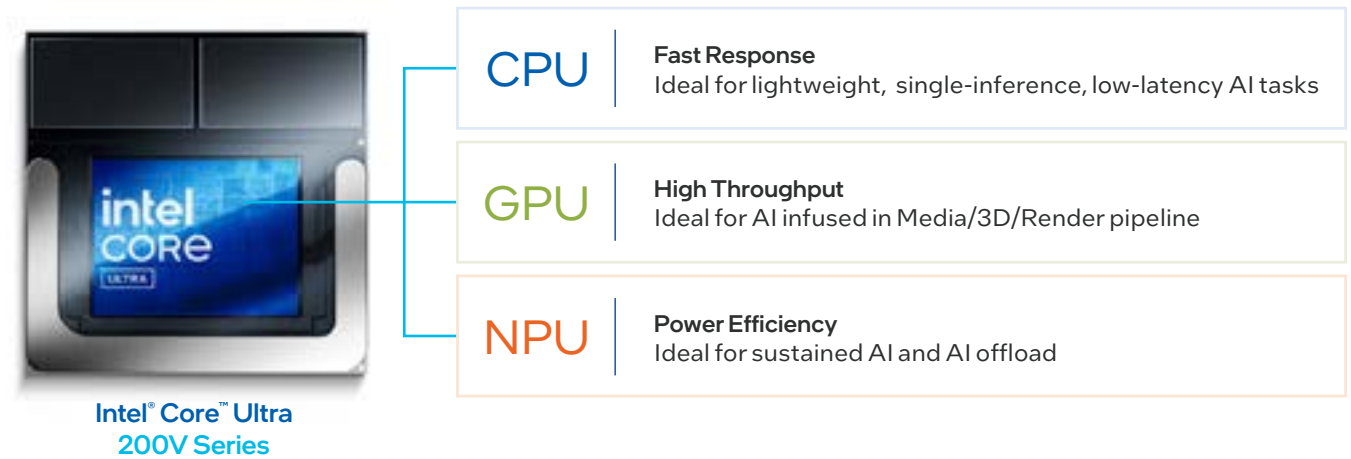
When optimized AI models for speech-to-text and translation are run on the Intel Core Ultra's NPU, transcription speeds are significantly improved relative to other solutions, including those run on competitive GPUs. This helps achieve faster and more efficient transcription workflows for Grass Valley EDIUS when using the Intel Core Ultra's NPU.

Advanced AI resources on Intel-powered AI PCs

As AI workflows become more central to mainstream business computing, cloud-based pricing models are proving unsuited to the scalability requirements of everyday inference. AI PCs with Intel Core Ultra processors democratize AI personal productivity by running inference directly on the client, driving the cost toward zero.

Intel® Core™ Ultra processors: Three AI engines for the AI PC

The right balance of platform power and performance for building and deploying AI models



Powered by Intel Core Ultra processors, Intel-based AI PCs usher in a new paradigm that matches AI workloads to specific execution engines to tailor latency, throughput, and power efficiency outcomes. CPU resources provide low-latency response with a combination of the latest Performance-core and Efficiency-core architectures. The integrated Intel® Arc™ GPU, based on new Xe2 architecture, drives high throughput for heavy workflows. The enhanced NPU 4.0 AI engine delivers up to 48 pTOPS¹ for power-efficient sustained inference.

The OpenVINO™ toolkit fast track to AI performance

OpenVINO empowers AI developers with the foundations for high-performance inference with a reduced footprint, while retaining accuracy, without any proprietary licenses. It optimizes code for the Intel hardware, including utilization of its different processing engines for the ideal balance of latency, throughput, and power efficiency. Using the

OpenVINO toolkit streamlines development and deployment to shrink timelines and maximize productivity while protecting data and investments. OpenVINO is making it easier for developers to adapt AI solutions to existing hardware solutions while preparing for future requirements and use cases.



Taking video-editing workflows to new levels with NPU-accelerated AI

Intel and magic multi media are continuing their collaboration to bring AI-powered features to the MMM BAT Server for EDIUS that take advantage of acceleration through the Intel Core Ultra processor’s NPU. Potential features include:

- Intelligent scene selection and auto-tagging
- AI-generated TTS voice-overs
- GenAI images and pictures
- Image-based search, including text and person recognition
- GenAI video and visual models
- Hybrid client-cloud Agile Media Processing Platform (AMPP) solutions

Conclusion

The MMM BAT Server for EDIUS brings the power of AI to Grass Valley EDIUS 11, with several new and exciting capabilities planned for future versions. By leveraging the power of AI running locally on the NPU within Intel Core Ultra processors to automate the creation of captions and subtitles, video professionals can spend fewer hours on this time-consuming task. This has the potential to impact editors and producers everywhere, especially in the EU, where subtitles and captions are now mandatory under the EAA.

Locally run AI workloads that are accelerated through the Intel Core Ultra processor’s built-in NPU improve power efficiency and free up the CPU and GPU for other operations. With a continually expanding list of AI-augmented processes, the MMM BAT Server for EDIUS has the potential to revolutionize workflows across the video production industry without relying on cloud-based services.

Learn more

To learn more about Grass Valley EDIUS 11 and the MMM BAT Server for EDIUS, visit:

- [EDIUS 11 | Fast, Flexible Video Editing Software | Grass Valley](#)
- [EDIUS.net](#)
- [MMM BAT Server for EDIUS_page](#)
- [EDIUS 11 trial versions and downloads](#)

To learn more about Intel® technologies, visit:

- [Intel AI PC](#)
- [Intel® Core™ Ultra processor family](#)
- [Intel® Distribution of OpenVINO™ toolkit](#)

Solution provided by:



¹ TOPS: All TOPS are “up to” and approximate until final IP frequency is defined; different SKUs with different frequency and power targets will have different TOPS. No product or component can be absolutely secure. Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy. Your costs and results may vary. Intel technologies may require enabled hardware, software or service activation. You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a nonexclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein. The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request. © Intel Corporation. Intel, the Intel logo and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.