

## Selenio MCP Media Convergence Platform

Advances for UHD and uncompressed over IP

Imagine Communications has a long history of providing early and comprehensive support for the next generation of media and entertainment industry technologies. As the market continues to undergo transformational change, Imagine Communications continues to infuse its industry-leading products with capabilities that media companies need to compete today and into the future.

Harnessing the power and versatility of the Selenio media convergence platform (MCP)—the company's industry-leading, modular processing, compression, and IP networking solution—Imagine Communications has introduced new modules that enable customers to make a seamless transition to UHD and IP-enabled workflows at whatever pace works for their business.

The Selenio MCP UHD up- and down-converter modules enable the integration of UHD-1 into an HD workflow or HD into a UHD-1 workflow. Providing high-performance video conversion processing and support for embedded audio, the new modules deliver state-of-the-art 10-bit motion-adaptive processing to ensure that video conversion maintains the high quality required for optimal scaling, de-interlacing/interlacing and color (gamut) processing.

Featuring a one-slot-per-module solution, the UHD module can support a single channel UHD-1 quad link SDI-to-3G/HD/SD-SDI down-conversion, or a single channel 3G/HD/SD-SDI up-conversion to UHD-1 quad link SDI. Also fully interoperable, the modules are compliant with the following standards: SMPTE ST 259, SMPTE ST 292, and SMPTE ST 425-5 Annex B 480i, 576i, 720p, 1080i, 1080p, and 2160p square division image formats, SMPTE ST 2036-1 UHD-1. These new modules are ideally suited for broadcasters and media companies as they roll out UHD TV to their customers leveraging their existing HD assets. Entire libraries of high-value content can be converted into the UHD digital video format, enabling new revenue streams across today's distribution platforms and diversity of devices.

Another new module that optimizes the inherent capabilities of Selenio MCP—from high application density and enhanced redundancy schemes to an easy-to-use interface—is the multichannel

uncompressed-over-IP (UCIP) card. Delivering an on-ramp/off-ramp solution for conversion of SDI baseband signals to IP streams and IP to SDI signals, the Selenio UCIP card allows customers to utilize their existing infrastructure and operate in a hybrid environment, while planning for a phased, disruption-free transition to IP. With user-definable modes—Transmit (SDI → IP) or Receive (IP → SDI)—the module provides uncompressed signal transmission at high bitrates and quality for superior editable video. An independent frame sync for each IP video source locks all SDI outputs to the frame reference, ensuring seamless transitions between the IP and SDI domains. The card also



offers clean/quiet switching capability between input IP sources, eliminating glitches and delivering the high quality signals broadcasters and media depend on. Especially well-suited to low-latency broadcast contribution applications such as sports, live events and studio-to-studio production, this module offers bidirectional, multichannel transport of HD/SD-SDI video signals over 10GigE link on a single-slot module in Selenio MCP and supports industry standards, including SMPTE 2022-5, SMPTE 2022-6, and SMPTE 2022-7.

The Selenio MCP platform's flexible, expandable design enables customers to mix and match UCIP, UHD, JPEG and MPEG compression functionality, as well as other critical processing capabilities, in the same frame—delivering a cost-effective yet high-density and high-performance solution to meet today's demands and tomorrow's requirements.

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