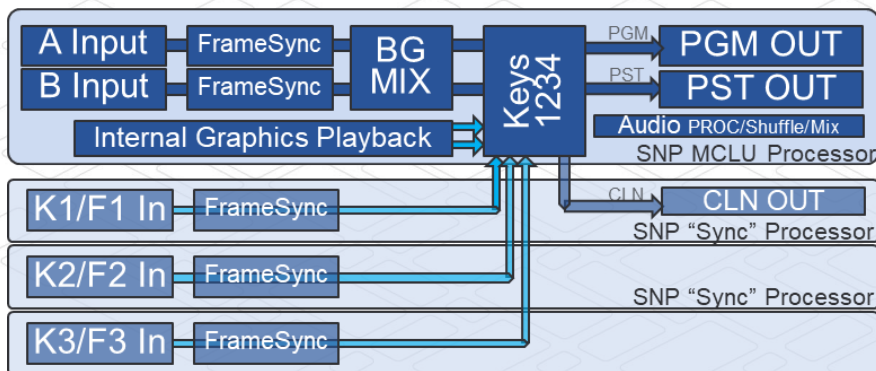


Selenio Network Processor

Master Control Lite (MCL) / Downstream Keyer (DSK)
for UHD Systems



The Selenio™ Network Processor (SNP) is a high-density, scalable, reconfigurable platform enabling media companies to perform video processing and conversion functions on standards-based IP networks using the SMPTE ST 2022-6 and ST 2110 standards, in addition to traditional SDI and 12G-SDI.

When composing channels for release, master control requires professional-looking transitions between content, adding branding and graphics to make a finished product. The MCLU personality for the SNP provides these high-value channel release functions within the overall framework of the SNP system.

For downstream keyer applications, the MCLU can be configured as a dual-DSK, flexibly allocating keyer layers to either (or both) buses.

It supports a full 10-bit UHD resolution datapath, including 10-bit UHD graphics and keys, as well as HDR operation for graphics and content.

The MCLU personality supports UHD (2160p) formats. When operating with SDI inputs or outputs, the SDI must be in either 12G or 2SI configuration. The personality includes four key layers, with internal graphics generators on each layer. Up to three external Key/Fill inputs are also available through adjacent SYNC or Dual-Conversion personalities, and auto-key is supported on the external fill.

When paired with an adjacent Dual-UHD-Conversion personality, the A and B inputs can be dynamically format converted into UHD and also mapped into HDR, allowing flexible integration of HD/SDR and UHD sources into a finished UHD program output. All inputs — A, B, and each key/fill — are full-frame synchronized to ensure clean operation even with untimed sources.

Each of the internal graphics generators supports multi-frame sequences with looping and sequencing, including triggered start and stop sequences. In order to maximize storage utilization, sub-frame cropped graphics are also supported.

SNP-PSK-MCLU	SNP Platform Software Key - enables 2160P Master Control Branding personality, supports AB inputs, Background Mixer, 4x internal graphics planes on one AP (Max 4 per SNP). HDR aware. This key also enables SNP-PSK-MCL functionality. External Key/Fill requires adjacent PSK-SYNC processor(s). HD Proxy requires additional related key.
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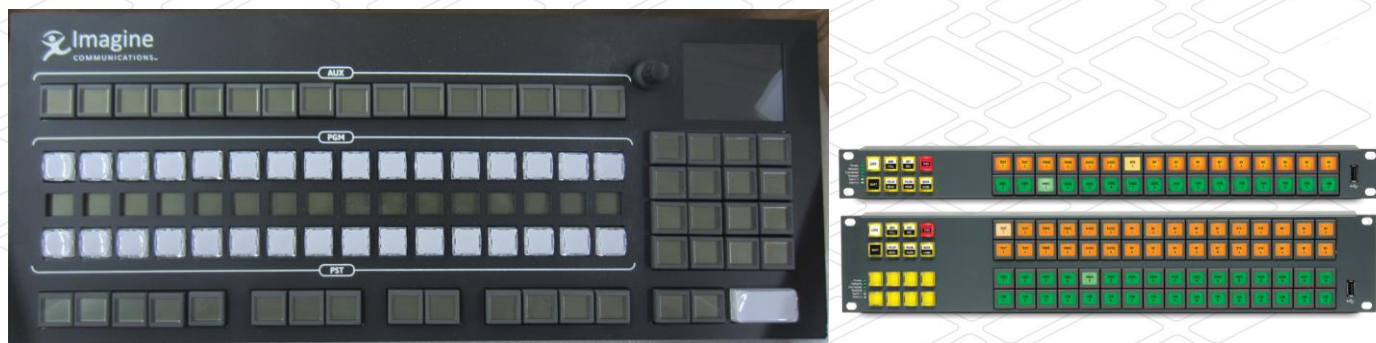


ST 2110



Selenio Network Processor

Master Control Lite (MCL) / Downstream Keyer (DSK) Control Panels and Control Options



The SNP MCLU feature can be controlled in several different ways.

A desktop pushbutton “hard panel” — the SNP-HW-MCLPNL — is available, featuring LCD displays for signal names and high-quality pushbuttons for all functions. It includes mode-specific buttons for transition selections, transition modes, and key/graphics operations.

The hard panel supports fast selection of up to 16 sources onto the program or preset buses, key on/off controls for each of the keyer layers, and transition controls. Parallel operation of multiple MCL personalities in tandem from the same panel is supported.

The compact panel features 80 buttons and a small display. A multi-functional knob is used for selecting and modifying displayed items.

In addition to the dedicated hard panel, all of the source selections, graphics selections, keys, and transitions can be controlled through the Imagine CCSP (Command, Control, and Status Protocol). CCSP is supported on the Imagine Magellan™ RCP series of panels. CCSP is also supported by many third-party control and automation systems.

The SNP MCLU integrates with automation systems using the well-known Imagine IconMaster™ switcher protocol, over IP network connections, and has been tested with both ADC™ and D-Series™ automation systems.

The SNP MCLU selects and manages source inputs by controlling an upstream router through Imagine LRC protocol and the Magellan™ Control System. The Magellan Control System supports integration of third-party SDI routers; it also fully supports ST2110 IP networking and control of ST2110 devices through NMOS.

<p>SNP-HW-MCLPNL</p>	<p>SNP Master Control Lite Small Format Remote Control Panel. Features 16 source select buttons for PGM and PVW buses, large “take” button, and other mode selection controls. Includes one multi-function adjustment knob. Overall size 482mm x 178mm. Desktop design.</p>
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ST 2110

