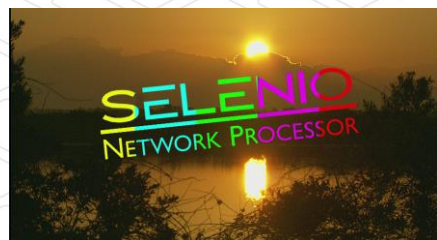
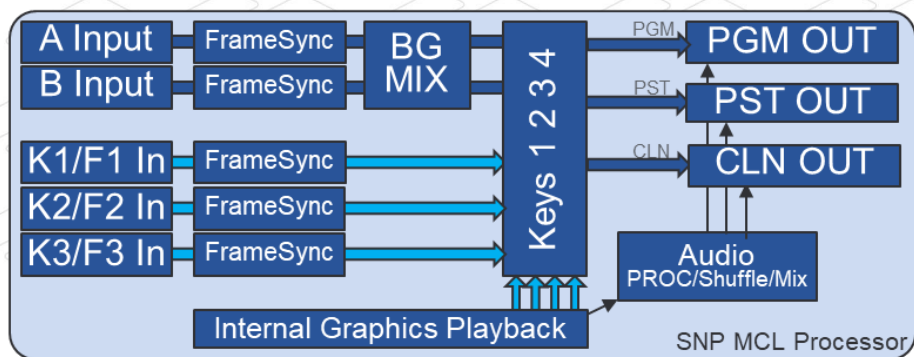


Selenio Network Processor

Master Control Lite (MCL) / Downstream Keyer (DSK)
For HD 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.

When composing channels for release, there is a need to make professional-looking transitions between content, adding branding and graphics to make a finished program. The Master Control Lite (MCL) personality for the SNP provides these high-value channel release functions within the overall framework of the SNP system.

The MCL can be configured as a dual downstream keyer (DSK), flexibly allocating keys to either (or both) buses.

It supports full 10-bit resolution throughout its datapath, including 10-bit alpha and graphics, as well as High Dynamic Range (HDR) operation for graphics and content.

The MCL personality supports HD/1080P formats (720p, 1080i, 1080p) with master control background transitions and multi-layer keying engines.

The personality includes four key layers, with an internal graphics generator associated to each layer. Three external Key/Fill inputs are also available, and auto-key is supported on the external fill.

As with all SNP personalities, the inputs and outputs can be SDI or ST2110 or ST2022-6. All inputs – A, B, and each key/fill – are full-frame synchronized internally to ensure trouble-free operation even with untimed sources.

Each of the four internal 1080p graphics generators is full-frame capable and 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.

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| SNP-PSK-MCL | SNP Platform Software Key - enables 1080P Master Control Branding personality, supports AB inputs, Background Mixer, 3x KeyFill inputs, 4x internal graphics on one AP (Max 4 per SNP). HDR aware. |
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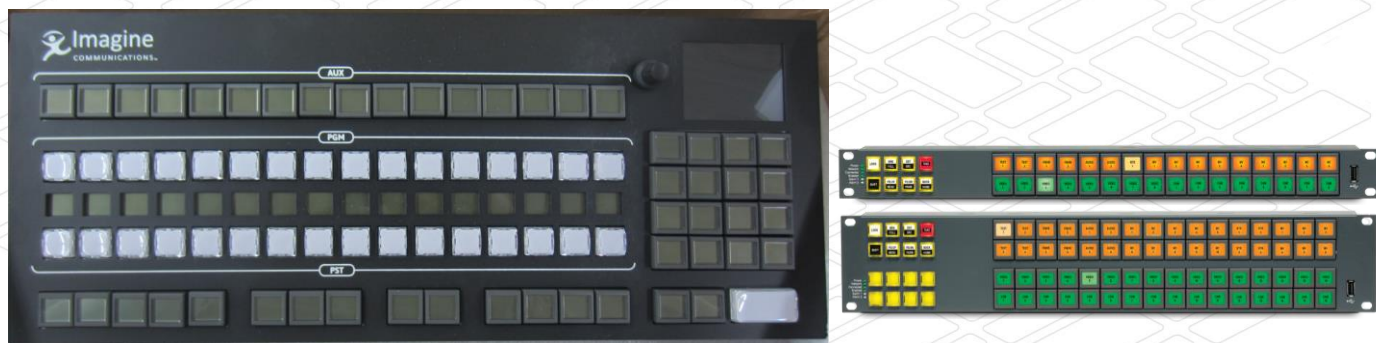


ST 2110



Selenio Network Processor

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



The SNP MCL 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 MCL 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 MCL 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.

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| <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



NMOS

