SNP-XS

Compact Power. Flexible Processing. IP-Ready.

The SNP-XS is the latest innovation in the acclaimed Selenio™ Network Processor (SNP) lineup — built equally for SDI-centric operations and hybrid SDI/IP operations.
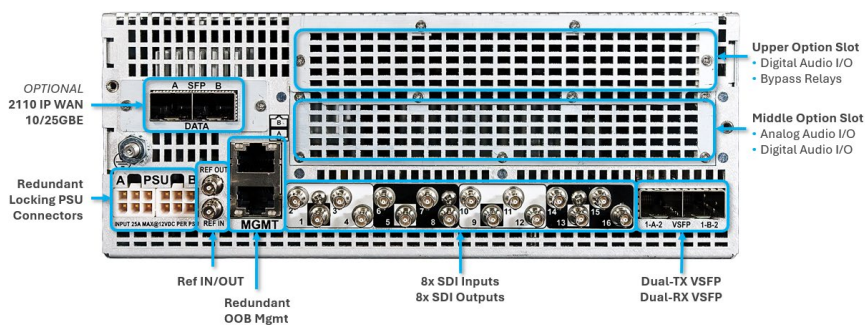
Designed for scalable, standards-based infrastructures, the SNP-XS delivers powerful processing in a compact, high-performance, half-rack 2RU platform , ideal for broadcast and production environments that demand flexibility, density, and high-quality video handling.

Built on the same architecture as the flagship SNP platform, the SNP-XS supports SMPTE ST 2110 and ST 2022-6 IP standards while maintaining seamless interoperability with SDI-based workflows. Whether you're migrating to IP or optimizing your existing SDI plant, SNP-XS adapts to your operational needs — today and tomorrow.

Platform Consistency, Expanded Flexibility

SNP-XS and SNP share the same software releases, APIs, and control protocols, and support the same feature licenses — ensuring full compatibility and consistent deployment across your operations. SNP-XS runs all current SNP applications right out of the box.

KEY CAPABILITIES

High-Density SDI Processing – with or without ST 2110

- Dual UHD with HDR Processing
- Quad 1080p HDR Processing
- 8x 1080p Frame Sync with HDR and Color Processing

Integrated Channel Master Control

- Single-channel per box master control with integrated graphics.
- Optional Relay Bypass Module enhances resiliency during power or signal loss.

Spot Gateway for Room-Level Integration

- Converts 8x 1080p SDI to ST 2110 IP (and vice versa)
- Main and Protect 25GbE network ports ensure signal protection
- Enables seamless room-to-core connectivity in IP environments.

Future-Proof JPEG-XS Integration

- JPEG-XS Pickup/Dropoff Engine
  - 8x 1080p JPEG-XS Encoders to 25GbE
  - 25GbE to 8x 1080p JPEG-XS Decoders
    Ensures visually lossless compression for low-latency transport over IP.

KEY FEATURES

- **SDI and 12GSDI In and Out for every program –** with optional IP/2110 capability
- **Super-quiet, low-velocity cooling –** ideal for noise-sensitive environments
- **Compact ½ rack 2RU chassis –** powerful processing in a smaller footprint
- **Flexible mechanical mounting –** rack, shelf, or mobile deployment options
- **Option Slots –** customizable for signal integration and future upgrades

The SNP-XS brings the power of Imagine's trusted SNP platform into a compact, deploy-anywhere format. With flexible I/O configurations, integrated HDR conversion, JPEG-XS transport, and channel-level control, it's the ideal choice for facility expansion, event production, or edge processing.

Start with SDI today. Add IP tomorrow. Scale as you grow.

SNP-XS – COMPACT. CAPABLE. CONNECTED.

ORDERING INFORMATION

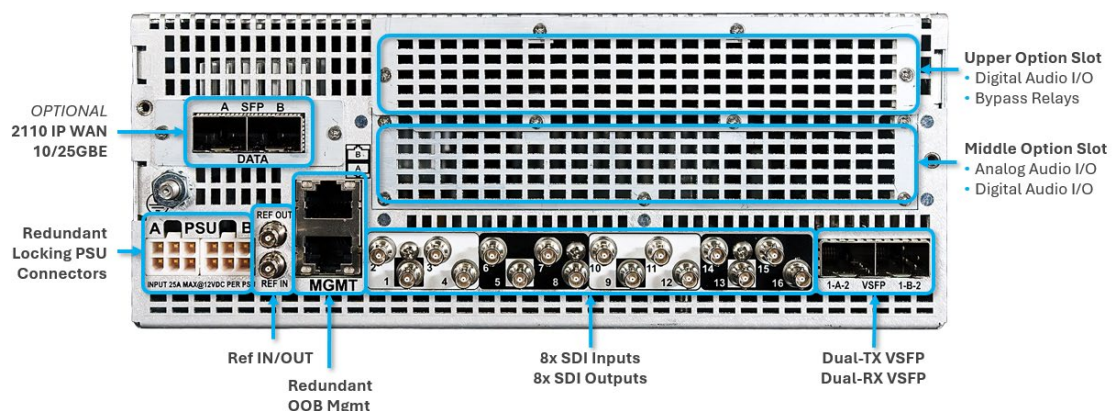| PART NUMBER	
SNP-PLATFORM-1XS	SNP HW unit includes 25GBE IP subassembly and one power supply. Software features, optics, and redundant power ordered separately
SNP-PLATFORM-1XSNOIP	SNP-XS Base HW unit, SDI input/output only, upgradable to ST2110 operation with additional add-in. Software features and redundant power ordered separately
SNP-XS-ADDIP	ST2110 IP add-in module for SNP-XS
SNP-PSK-2CONVUHD	SNP Software Application Key – enables two UHD conversions up or down including color processing
SNP-PSK-4CONV3G	SNP Software Application Key – enables four 1080p conversions up or down including color processing
SNP-PSK-SYNC	SNP Software Application Key – eight channel 1080p (or dual UHD) frame synchronizer and color processor
SNP-PSK-GW88	SNP Software Application Key – Bi-Directional eight channel 1080p frame synchronizer for high-density ST2110 gateway applications (requires IP submodule)
SNP-PSK-MCL	SNP Software Application Key – 1080p Master Control and dual Downstream Keyer (DSK) processor – four keyer planes, three external K/F inputs, internal graphics, and background mixer
SNP-PSK-HDR	SNP Software add-on key – adds HDR conversion and adjustment to applications which include color processing

Upper Option Slot
• Digital Audio I/O
• Bypass Relays

Middle Option Slot
• Analog Audio I/O
• Digital Audio I/O

OPTIONAL 2110 IP WAN 10/25GBE

Redundant Locking PSU Connectors

Ref IN/OUT

Redundant OOB Mgmt

8x SDI Inputs
8x SDI Outputs

Dual-TX VSFP
Dual-RX VSFP

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