



flow SDI Ingest

Flow Ingest Server:
4 channel and 8 channel SD/HD ingest



The Flow SDI Ingest hardware platform has been totally redesigned from the ground up with the latest Supermicro X10 motherboard and dual Xeon CPUs in a compact medium depth 2RU form factor. This new design is the most powerful and compact EditShare Flow baseband ingest platform ever offered, utilizing a new Matrox SDI I/O capture card for expanded channel count per server and enabling a dramatically lower cost per channel.

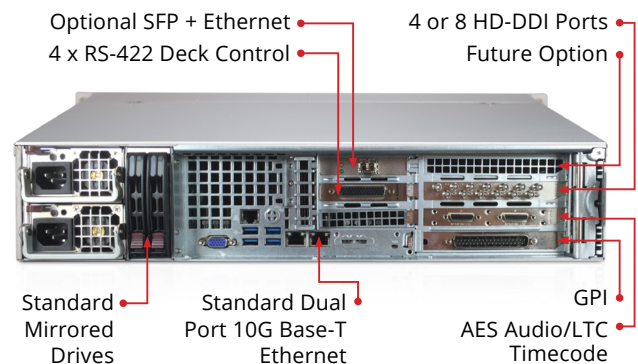
This new server is available in two models with either 4 or 8 total SDI ports. The SDI ports are software reconfigurable either as all inputs or as half inputs plus half e-monitoring outputs, offering increased flexibility depending on the needs of the facility. This means that the 4 port model can operate in 4/0 mode or 2/2 modes, while the 8 port model can operate in 8/0 or 4/4 modes.

All inputs are auto sensing for frame rate and video standard, and can support SD-SDI and HD-SDI signals up to 1080p29.97. The new Matrox capture card also provides full frame synchronizers on all channels,

providing more stability and robustness against mismatched or unstable incoming video signals.

Depending on the required capture codec, number of ingest streams and I/O mode (all inputs or half in/half out), customers can select the standard dual 10-core CPU or an uplifted dual 12-core CPU option for added concurrent real-time encoding power. EditShare recommends the uplifted CPU option when using the 8-port model in all-input mode, or when capturing fewer streams of CPU intensive codecs such as AVC.

All models include a full complement of ingest codec including DNxHD, ProRes, AVC and XDCAM as standard. Depending on chosen CPU option, the servers can concurrently capture the full channel count of 4 or 8 SDI streams (in all codecs except AVC). All models also come as standard with AES Audio inputs, LTC timecode input, 4 x RS-422 deck control, onboard dual-port 10GBaseT Ethernet, and future support for GPI inputs.



Specifications

Server Models

Model Number	Total SDI Port Count	Supported SDI I/O modes (in/e-e out)	CPU Option	Supported Realtime Ingest Streams (High Res plus standard ¼ res proxy)
Flow-SDI-4-U	4	4/0, 2/2	Uplifted (Dual 12-Core)	4 streams in all codecs including AVC
Flow-SDI-8-U	8	8/0, 4/4	(Dual 12-Core)	8 streams in all codecs except 5 streams in AVC

Hardware

Form Factor	2RU, medium depth chassis
Operating System	Ubuntu Linux
Motherboard	Dual socket X10 Supermicro Motherboard, Intel C612 chipset
RAM	64 GB ECC DDR4 2133 MHz
CPU	<ul style="list-style-type: none"> Standard CPU: Dual E5-2650v3 (each CPU 10 core, 40 total cores with Hyperthreading) Uplifted Optional CPU: Dual E5-2670v3 (each CPU 12 core, 48 total cores with Hyperthreading)
Power Supply	920W Redundant High-efficiency Platinum Level (94%+)
Input Voltage	100 - 240 VAC
Input Frequency	50/60 Hz
OS Drives	Standard Dual Mirrored 2.5" 320 GB SATA, Hot Swap/Rear Accessible
Cooling	3 x 80mm 7K RPM Hot-Swap Chassis Fans
Operating Temperature Range	10 - 35°C (50° - 95°F)
Non-Operating Temperature Range	-40 - 60°C (-40° - 140°F)
Humidity Range	8 - 90% non-condensing
Non-Operating Humidity Range	5 - 95% non-condensing
Width	17.2" (437mm)
Height	3.5" (89mm)
Depth	25.5" (648mm)
Packaging	26.7" (W) x 11.4" (H) x 34.5" (L)
Gross Weight	52 lbs empty chassis (23.6kg)

Standard I/O Connectivity

(4/8) HD-SDI/SD-SDI inputs (High Density BNC)
(1) Ref Video Input (High Density BNC)
(8/16) AES/EBU Digital Audio input channels (unbalanced BNC breakouts)
(4/8) LTC Timecode Inputs (BNC breakouts)
(4) RS-422 (Serial Deck Control)
(16) GPI Control In (For future implementation)
(5/9) Included High Density to BNC-F adapter cables

Network Connectivity

Standard Dual Port Intel X540 10G-BaseT onboard autosensing network ports
Integrated IPMI 2.0 Ethernet Management Port
Optional Single/Dual Port SFP+ Optical 10Gbe card

Video Standards Support

HD-SDI	SD-SDI
(HD) 1080i 25, 29.97	(SD) 625i 25
(HD) 1080PsF 23.98, 25, 29.97	(SD) 525i 29.97
(HD) 1080p 23.98, 25, 29.97	
(HD) 720p 50, 59.94	