



## XPression Engines Software and Hardware Compatibility Matrix

XPression	HD-SDI				IP SMPTE 2022-6, 2022-7 & 2110				12G SDI		
	1RU	1RU	2RU	4RU	1RU	2RU	4RU	4RU	1RU	2RU	4RU
<b>Hardware Edition ▾</b>	XPN-1RU-LL-M9	XPN-1RU-M9	XPN-2RU-M9	XPN-4RU-M9	XPN-1RU-IP-D25L-M9**	XPN-2RU-IP-D10-M9*	XPN-2RU-IP-D25L-M9**	XPN-4RU-IP-Q25L-M9**	XPN-1RU-2G-M9††	XPN-2RU-2G-M9††	XPN-4RU-12G-LL-M9††
<b>Software Edition ▾</b>											
PRIME XPR1-0001	●	●	●	●	●	●	●	●	●	●	●
STUDIO SCE XSTS-0001	●	●	●	●	●	●	●	●	●	●	●
STUDIO STANDARD XST3-0001	●	●	●	●	●	●	●	●	●	●	●
STUDIO FLEX XSTF-0001	■	●	●	●	●	■	●	●	■	■	●
BlueBox SCE XBBS-0001	●	●	●	●	●	●	●	●	●	●	●
BlueBox XBB3-0001	●	●	●	●	●	●	●	●	●	●	●
BlueBox FLEX XBBF-0001	■	●	●	●	●	■	●	●	■	■	●
CLIPS 1-CHANNEL XCLS-0001	●	●	●	●	●	●	●	●	●	●	●
CLIPS 2-CHANNEL XCLD-0001	■	●	●	●	●	●	●	●	●	●	●
CLIPS 4-CHANNEL XCLF-0001	■	●	●	●	●	■	●	●	■	■	●

\*2x 10G SFP28 Cages Does Not Support UHD

\*\*2x 25G SFP28 Cages and, does not support SMPTE ST 2022-6

†† Only has 4 HD-BNCs and cannot support more than 4 signals (Supports single-channel UHD only)

†† Capabilities differ when using HD-SDI or UHD SDI inputs and/or outputs

Ross Video has a complete range of technical services available to ensure that your XPression installation is a success.

**Operational Training** can be provided at Ross Video, on-site or on the web. Experienced Ross operators will teach your staff to get the most out of your new system and enhance your production.

**Commissioning** is a service to help get your graphics system properly configured, connected, and installed. This service is performed by factory trained Ross technical staff.

**Technical Training** can be provided at Ross Video, on-site or over the web. Technical training will teach your engineering staff the technical details of the system you have purchased. System configuration, interfaces, databases, and routine maintenance procedures are some of the topics covered.

XPression comes standard with a 1-year system warranty (parts / labor & software updates) and 5-Years for Hard Disk Drives. **Extended Warranties** on hardware and software maintenance are available for an annual fee. Technical advice is available on-line, by telephone, or email to Ross Video – **Included for the life of your system.**



XPN-4RU-M9

**Dimensions**

Height	Width	Depth
17.6 cm (6.9")	43 cm (16.9")	59.2 cm (23.3")

**Weight**

Net Weight	Gross Weight When Shipped
25.9 kg (57 lbs.)	37.6 kg (83 lbs.)

**Hardware**

Chassis	4RU Chassis (rackmount)
Power Supply	960W EPS 12V Hot-swappable 1+1 redundant power supply
Power Consumption	@110v Idle 215w Under Full Load 450w
Fan Noise	Between 53dB to 58dB
System Drive Media Drive	465G (2x 500GB 3D NAND 2.5" SSD RAID1) 7.27TB (3x 4TB 3D NAND 2.5" SSD in RAID5)
CPU	Intel® Xeon® Silver 4410T, 10-Core, 26.25MB Cache, 2.70GHz, 4.0GHz Turbo
Memory	64GB (4x16GB) 4800MT/s DDR5 RDIMM with ECC
GPU	NVIDIA™ RTX 4000 Ada 20GB GDDR6, 4x Display Port 1.4a Ports
Video I/O	HD-SDI or Quad-Link UHD SDI Matrox® DSXLE4/8/100, NDI®
O/S	Microsoft® Windows® 11 Professional for Workstation
Server Management	Integrated VGA Output 1x RJ-45 IPMI Management LAN Port

**Inputs / Outputs**

Video	4x Input 4x Output 4x Bi-directional (only 8 HD-BNC are active at any time) For Up To 4x Channels (1 Fill/1 Key pair each) Or 1x Quad-Link UHD Out
Audio	Supports up to 16 channels of audio per video output stream as AES or Embedded Audio
Reference	1x Analog Black Burst (Bi-Level Sync) or Tri-Level Sync input

**Control**

Ethernet	1x RJ-45 1G Ethernet Ports 1x RJ-45 2.5G Ethernet Ports 2x RJ-45 10G Ethernet Port
Serial	1x RS-232 Port
Time Code	1x LTC Input
GPI	12 GPI In/12 GPI Out on 25-pin D-Sub Connector, Unlimited RossTalk™ Smart GPI over TCP/IP
USB	Front Panel - 2x USB 3.1 (Type A) Rear Panel - 4x USB 3.2 (Type A) - 2x USB 2.0 (Type A)

**Included Accessories**

Rackmount Kit	Slide rails, Handles, and Mounting Hardware
Keyboard	Standard USB Windows PC Keyboard (US English)
Mouse	USB 2-button mouse
Security Key Software	Either USB Hardware License or Software-based Product Key Provided With Software Purchased Separately

**Video I/O Formats**

480i 29.97 fps (NTSC) | 576i 25 fps (PAL) | 720p 50 fps |  
720p 59.94 fps | 720p fps | 1080i 25 fps | 1080i 29.97 fps |  
1080p 23.976 fps | 1080p 29.976 fps | 1080p 50 fps |  
1080p 59.94 fps | 1080p 60 fps | 1080psf 23.976 fps |  
1080psf 24 fps | 1080psf 25 fps | 1080psf 29.97 fps |  
1080psf 30 fps | 2160p (Quad) 29.97 fps | 2160p (Quad)  
50fps | 2160p (Quad) 59.94 fps | 2160p (Quad) 60 fps

**Supported Image File Formats**

\*.tga | \*.tif | \*.psd | \*.bmp | \*.jpg | \*.gif | \*.png

**Supported Clip File Formats**

AVI | MPEG1 | QuickTime | Sequential Images

\*Available in the 32-bit editions only

**Warranty**

12-Month System Warranty (parts / labor)

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Specifications subject to change without notice