XPression

1RU HD-SDI Low Latency Chassis



XPression Engines Software and Hardware Compatibility Matrix

XPression	HD-SDI					IP SMPTE ST 2022-7 & 2110				12G SDI						
	1RU			2RU	4RU	1RU	2RU	4RU		1RU		2RU		4RU		
Hardware Edition ▸ / Software Edition ▾	XPN-1RU-M9	XPN-1RU-LL-M9	XPN-1RU-RS2-M9†††	XPN-2RU-M9	XPN-4RU-M9	XPN-1RU-IP-D25L-M9**	XPN-2RU-IP-D25L-M9**	XPN-4RU-IP-D25L-M9**	XPN-4RU-IP-Q25L-M9**	XPN-1RU-RS2-M9†††	XPN-1RU-12G-M9††	XPN-2RU-12G-M9††	XPN-2RU-RS2-M9†††	XPN-4RU-12G-M9††	XPN-4RU-12G-LL-M9††	XPN-4RU-RS2-M9†††
PRIME XPR1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STUDIO SCE XSTS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STUDIO STANDARD XST3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STUDIO FLEX XSTF	●	■	●	●	●	●	●	●	●	●	■	■	●	■	●	●
BLUEBOX SCE XBBS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
BLUEBOX XBB3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
BLUEBOX FLEX XBBF	●	■	●	●	●	●	●	●	●	●	■	■	●	■	●	●
CLIPS 1-CHANNEL XCLS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CLIPS 2-CHANNEL XCLD	●	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CLIPS 4-CHANNEL XCLF	●	■	●	●	●	●	●	●	●	●	■	■	●	■	●	●

**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 by 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 by Ross Video, on-site or on 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.**

Phone: +1 613-652-4886 • Technical Support: 1-844-652-0645 (North America), +800 1005 0100 (International) • 3509DR-553 Rev 5 • November 2026 ©2026 Ross Video Limited. Ross®, and any related marks are trademarks or registered trademarks of Ross Video Limited. All other trademarks are the property of their respective companies. PATENTS ISSUED and PENDING. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanical, photocopying, recording or otherwise, without the prior written permission of Ross Video. While every precaution has been taken in the preparation of this document, Ross Video assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein.

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1RU HD-SDI Low Latency Chassis



XPN-1RU-LL-M9

Dimensions

Height	Width	Depth
4.3 cm (1.69")	43.8 cm (17.25")	65.6 cm (25.8")

Weight

Net Weight	Gross Weight When Shipped
12.42 kg (21.6 lbs.)	12.5 kg (27.6 lbs.)

Hardware

Chassis	1RU Chassis (rackmount)
Power Supply	2x 675 W power supplies (redundant) Voltage Range 100-240 VAC Input Current 3.7 A- 7.4 A
Power Consumption	@115 VAC, Idle 83.416 W - Max 454.3 W
Fan Noise	Between 36 dB to 46 dB
System Drive	1 TB (2x 1 TB 3D NAND 2.5" SSD RAID1)
Media Drive	4 TB (2x 4 TB 3D NAND 2.5" SSD in RAID1)
CPU	Intel® Xeon® W5-2545, 12-Core, 30 MB Intel® Smart Cache, 3.5 GHz, Max Turbo Frequency 4.7 GHz
Memory	64 GB (4x 16 GB) 4800 MT/s DDR5 RDIMM with ECC
GPU	NVIDIA™ RTX PRO 4000 Blackwell 24 GB GDDR7, 4x 2.1 Display Ports
Video I/O	HD-SDI Matrox® X.mio3L/24/100, NDI®
O/S	Microsoft® Windows® 11 Professional for Workstation

Inputs / Outputs

Video	4x HD-SDI out and 2 bi-directional HD-BNC for up to 3 channels (Video/Key Pair) of 1080p, NDI®
Audio	Embedded audio only
Reference	1x Analog Black Burst (Bi-Level Sync) or Tri-Level Sync input

NDI® is a registered trademark of VizRT NDI AB

Control

Ethernet	1x RJ-45 1 G Ethernet Port 1x RJ-45 10 G Ethernet Port
Serial	1x RS-232 Port 2x P/S2 Ports
GPI	Unlimited RossTalk™ Smart GPI over TCP/IP
USB	Front Panel - 4x USB 3.1 (Type A) Rear Panel - 2x USB 3.1 (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 29.97fps (NTSC) | 576i 25fps (PAL) | 1080i 25fps | 1080i 29.97fps | 720p 50fps | 720p 59.94fps | 720p 60fps | 1080p 23.976fps |1080p 24fps |1080p 25fps |1080p 29.97fps |1080p 30fps |1080p 50fps |1080p 59.94fps | 1080p 60fps | 1080psf 23.976fps | 1080psf 24fps | 1080psf 25fps | 1080psf 29.97fps | 1080psf 30fps | 2160p 23.976fps | 2160p 24fps | 2160p 25fps | 2160p 29.97fps | 2160p 30fps | 2160p 50fps | 2160p 59.94fps | 2160p 60fps

Supported Image File Formats

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

Supported Clip File Formats

AVI | MPEG† | QuickTime† | Sequential Images
†Available in the 32-bit editions only

Warranty

12-Month System Warranty (parts / labor)

Specifications subject to change without notice