

XPression™ User Supplied Hardware Platform

Overview

This document describes the Ross recommended hardware configuration for XPression 4RU and 2RU systems in which a customer or business partner supplies hardware. Bundled hardware + software solutions are also available from Ross Video.

Supported hardware is updated regularly with the latest information on processors, I/O boards, Hard Disk Drives, and more. Please read the specifications below to select the appropriate hardware to best meet the specific needs of your application.

Ross provides these recommendations on a best-efforts basis and cannot guarantee specific hardware performance parameters. Hardware performance and functionality is the responsibility of the hardware vendor. Customers or business partners supplying hardware are responsible for hardware installation, configuration, set-up, and support.

Please feel free to contact us with questions at solutions@rossvideo.com.

The following configurations are listed:

- 4RU Supported Hardware Configuration
- 2RU Supported Hardware Configuration

4RU Supported Hardware Configuration

Component	Details
Chassis	• 4 RU rackmount or tower with sufficient height space for the GPU
Power Supply	• Recommended: 960W EPS 12V Hot-swappable 1+1 redundant power supply
Memory	• Recommended: 16GB DDR4 2666 UDIMM
SD Output Board	• Blackmagic Design® DeckLink Studio
HD Output Boards	• Matrox® DSXLE4/8/100F (for HD-SDI) • Matrox® DSXLE4/E4/100F or DSXLE4/E/100F (for IP) • Matrox® XMIO3/12G/100 (for 12G) • AJA® Corvid88 (for HD-SDI) • AJA® Kona IP (for IP) For information on all supported output boards for the XPression 4RU chassis, see the <i>XPression Video I/O Card and 3rd Party Driver Specifications</i> document.
GPU	• Recommended: NVIDIA® GTX 1080 8GB 256-Bit GDDR5
Mainboard	• ASUS® WS X299 SAGE
CPU	• Recommended: Intel® Core™ i7 7820x Processor 11MB Cache (XPression is optimized for Intel CPUs)
HDD	• 3x 1TB SSD RAID 5
System Drive	• 2x 256GB SSD RAID 1 (Mirrored)
USB	• 1 available USB port for security key
Keyboard / Mouse	• Standard keyboard / 2 button mouse
Operating System	• Microsoft® Windows® 10 Professional, 64 bit

2RU Supported Hardware Configuration

Component	Details
Chassis	<ul style="list-style-type: none">• 2 RU rackmount server with sufficient space for the GPU
Power Supply	<ul style="list-style-type: none">• Recommended: 500W (N+1) Redundant
Memory	<ul style="list-style-type: none">• Recommended: 16GB DDR4 2666 UDIMM
SD Output Board	<ul style="list-style-type: none">• Blackmagic Design® DeckLink Studio
HD Output Boards	<ul style="list-style-type: none">• Matrox® DSXLE4L/44/100F (for HD-SDI)• Matrox® DSXLE4/E4/100F or DSXLE4/E/100F (for IP)
GPU	<ul style="list-style-type: none">• Recommended: NVIDIA® QUADRO P4000 8 GB GDDR5 1792 CUDA® Cores
Mainboard	<ul style="list-style-type: none">• ASUS® WS X299 SAGE
CPU	<ul style="list-style-type: none">• Recommended: Intel® Core™ i7 7820x Processor 11MB Cache (XPression is optimized for Intel CPUs)
HDD	<ul style="list-style-type: none">• 2x 1TB SSD 12GB/s RAID 1 (Mirrored)
System Drive	<ul style="list-style-type: none">• 2x 256GB SSD 12GB/s RAID 1 (Mirrored)
USB	<ul style="list-style-type: none">• 1 available USB port for security key
Keyboard / Mouse	<ul style="list-style-type: none">• Standard keyboard / 2 button mouse
Operating System	<ul style="list-style-type: none">• Microsoft® Windows® 10 Professional, 64 bit

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