

XPression Studio and BlueBox User Supplied Hardware Platform

This document describes the Ross recommended hardware configuration for XPression Studio and BlueBox 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, setup, and support.

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

Specifications subject to change.

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Specifications

Component	Minimum	Recommended	Tested Components
Power Supply	Select a power supply based on the power and connection requirements of the system components. It is recommended to operate most computer power supplies at 40% to 80% of their total capacity for optimal efficiency and overhead.		960 W EPS 12V hot-swappable 1+1 redundant power supply
Memory	16 GB	64 GB	64 GB (4 x 16 GB) 4800 MT/s MHz DDR5 RDIMM with ECC
GPU	8 GB GDDR6 with PCI-E slot x16	20 GB GDDR6	NVIDIA® RTX4000, Ada 20 GB GDDR6, 4 x Display Port 1.4a
Mainboard	Select a mainboard that can support the requirements of your system components.		ATX Server Motherboard
CPU	6 CPU Cores @ 2.8 GHz (XPression is optimized for Intel® CPUs)	8 CPU Cores @ 3.6 GHz (XPression is optimized for Intel® CPUs)	Intel® Xeon® Silver 4410 T, 10-Core, 26.25 MB Cache, 2.70 GHz, 4.0 GHz Turbo

Component	Minimum	Recommended	Tested Components
Output	• Matrox® DSXLE4L/44/100F (for HD-SDI or UHD) • Matrox® DSXLE5/D25/100 (for IP) • Matrox® XMIO3/12G/100 (for 12G) • AJA® Corvid88 (for HD-SDI or UHD) With PCI-E slot x8 or higher		• Matrox® DSXLE4L/44/100F (for HD-SDI or UHD) • Matrox® DSXLE4/E4/100F or DSXLE4/E/100F (for IP) • Matrox® XMIO3/12G/100 (for 12G) • AJA® Corvid88 (for HD-SDI or UHD) • AJA® Kona IP (for IP) • Blackmagic Design® DeckLink HD Extreme With PCI-E slot x8 or higher
Storage	100 GB	• System Storage: 256 GB SSD • System RAID: RAID 1 (Mirrored) • Media Storage: 1 TB SSD or HDD • Media RAID: RAID 1 or RAID 5	• System Storage: 2 x 256 GB SSD RAID 1 (Mirrored) • Media Storage: 3 x 1 TB SSD RAID 5
USB	• 1 USB port for XPression USB License • 1 USB port for XPression Software Installer USB • 2 USB ports for keyboard and mouse		
Keyboard / Mouse	• Standard keyboard / 2 button mouse • Optional: XPression Custom Keyboard		
Operating System	Microsoft® Windows® 10 Professional, 64 bit		