2024 1U Rocket Effects Server





Overview

The 2024 1U Rocket Effects Server is designed for LED video scoreboards, offering exceptional ultra-high-resolution pixel-to-pixel display quality. It supports versatile mosaic configurations, enhancing display management and user interaction.

Key Features

- 1x 4K×2K@60Hz Output Capacity
- Versatile Connector Outputs:
 - o 1x DP 1.2
 - 5x HDMI 1.3 (4 labeled as Output, and 1 labeled as "Control" for monitor output)
 - o 1x HDMI 2.0 (shares with HDMI 1.3 Port 1 and mirrors DP 1.2 content)

Port Configurations:

- Port 1: Can be configured as either HDMI 1.3 or HDMI 2.0.
- Additional HDMI 1.3 Ports:
 - o 4x HDMI 1.3 labeled as Output
 - 1x HDMI 1.3 labeled as "Control" for monitor output

Resolution and Frame Rates:

- Max Output Resolution: 4K×2K@60Hz
- Supported Frame Rates: 23.98/24/25/29.97/30/47.95/48/50/56/59.94/60
- Custom Resolutions: Max Width 8192 pixels, Max Height 4095 pixels

Video and Audio Specifications:

- Video Output:
 - o 8-bit output
 - o Supported Color Spaces: RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
 - Supported Color Ranges: Full and Limited
- Audio Output:
 - Max 24-bit depth for dual-channel
 - o Sampling Rates: 24 KHz, 44 KHz, 48 KHz (default)
- HDCP Supported
- Status LEDs:
 - Green: Normal connection
 - o Off: No connection or abnormal connection
- EDID Lock Supported
- Audio and Video Synchronization Supported

Specifications for Individual Ports:

- DP 1.2 Port:
 - Max Output Resolution: 4K×2K@60Hz
 - Supported Frame Rates and Custom Resolutions (same as overall specifications)

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HDMI 1.3 Ports:

- Max Output Resolution: 2K×1K@60Hz
- o Four HDMI 1.3 Connectors Default to 2x2 Output
- EDID Settings Supported (applies to all HDMI 1.3 connectors)
- Supported Color Space: RGB 4:4:4
- Supported RGB Color Range: Full and Limited
- Audio Output Not Supported

Hardware Specifications:

- Processor: AMD Ryzen 5
- Storage: ITB Samsung NVME SSD
- Memory: 16 GB DDR4 RAM
- Operating System: Windows 11 IoT Enterprise LTSC 2024 (Supported until 2034)
- Power Supply: 120W open-frame
- Power Consumption: 80W
- **Power Connector:** 100–240V~, 60/50Hz

Audio Connectors:

- 1x MIC: 3.5 mm audio input
- 1x Line OUT: 3.5 mm audio output

Networking:

• 1x RJ45 Realtek 1Gb Ethernet Port

USB Ports:

- 2x USB 3.0 (Front)
- 4x USB 2.0 (Back)



Environmental Specifications:

- Operating Temperature: 0°C to 45°C
- Humidity: 0% RH to 80% RH, non-condensing

Physical Specifications:

- **Dimensions:** 482.6 mm × 43.6 mm × 400 mm
- Net Weight: 5.2 kg

Preloaded Software:

- Multi-Sport Pro Designer
- Multi-Sport Pro Player
- Multi-Sport Pro Rocket Effects
- NovaStar VMP

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Optional 15.6-Inch 1080p IPS Touchscreen KVM Kit

Key Features:

- 1080p Full HD IPS Display: Enjoy sharp and vibrant visuals on a 15.6-inch screen with wide viewing angles.
- 10-Point Multi-Touch Technology: Experience precise and intuitive screen control with multitouch capabilities, ideal for both work and play.
- **USB-C One-Cable Solution:** Simplify your setup with a single USB-C cable that handles multimedia transfer, touch signal transmission, and power charging.
- **Mini HDMI Input:** Seamlessly connect to a variety of devices for a smooth multimedia experience.
- **Dual Built-in Speakers:** Enjoy clear, crisp audio without the need for external speakers.

Design & Durability:

- Compact & Lightweight: Easily portable, making it perfect for professionals on the go.
- **Elegant Metallic Design:** A sleek, durable metal case paired with an aluminum stand offers both style and strength.
- Anti-Scratch 6H Hardness Screen: Protect your monitor from everyday wear and tear, even from accidental scratches by keys or other objects.
- Magnetic Cover & Anti-Slip Mat: The detachable magnetic cover doubles as an anti-slip mat, keeping your monitor secure and protected during transport.

Flexibility & Convenience:

- Adjustable Stand: Work comfortably at any angle with up to 60 degrees of tilt.
- **USB-C Powered:** Charge your monitor (up to 60W) while powering it from an external power bank or outlet with the second USB-C cable.

Enhanced Productivity:

- Logitech Advanced Wireless Keyboard & Mouse Combo:
 - 2.4 GHz Unifying USB-Receiver: Enjoy a reliable wireless connection for both keyboard and mouse.
 - Multimedia Hotkeys: Quick access to your favorite media and functions.
 - **3-Year Battery Life:** Long-lasting battery performance ensures uninterrupted productivity.
 - **Spill-Resistant Design:** Built to withstand accidental spills, keeping your workspace safe.