

This conceptual illustration depicts the interconnectedness of Industry 4.0. A central network of stylized blue roads with white dashed lines winds through the scene, symbolizing data flow and communication. Various icons representing different sectors are placed along these paths: manufacturing (robotic arm, factory), energy (oil rig, flame), healthcare (person with headset, medical monitor), aviation (helicopter, airplane, airport control tower), and general technology (satellite, Wi-Fi signal, molecular structure). Several inset video screens show real-world applications, such as a worker at a computer, a complex industrial facility, a laboratory setting, and an aircraft carrier. The overall design uses a clean, modern aesthetic with a light blue and grey color palette, emphasizing a digital and integrated industrial environment.



Exceptional Remote Performance at Low Bitrate

Extio 3, the latest addition to Matrox's KVM family is the world's first IP KVM extender to deliver 4Kp60 4:4:4 UHD performance and multi-display capabilities at unprecedented low bitrates. Leveraging a standard Gigabit Ethernet network, Extio 3 works with commercial off-the-shelf (COTS) network switches and significantly diminishes the total cost of ownership to deliver a scalable KVM matrix switching solution.

Matrox KVM extenders help to centralize hardware in a climate-controlled server room to increase security, protect systems against environmental hazards, and reduce system noise and heat emissions. The Matrox Extio 3 IP KVM extender grants seamless secure remote access to these secured systems, plus the added benefit of smart control over the IP network. This IP KVM extender is ideally suited for process control, industrial automation, healthcare, transportation, emergency and dispatch centers, military, defence, government, broadcasting and post-production, and many other industries and applications.



Superior Performance

- Extend ultra-high resolution desktops (3840x2160 @60Hz) at unprecedented low bitrates with the world's first 4Kp60 4:4:4 IP KVM extender.
- Support quad-monitor configurations (4x 1920x1080 @60Hz) with a single transmitter and receiver pair, improving operator workflow across an expansive multi-monitor workspace.
- Deliver pristine image quality, smooth video playback, and excellent keyboard and mouse responsiveness at a distance with Matrox-patented technology.



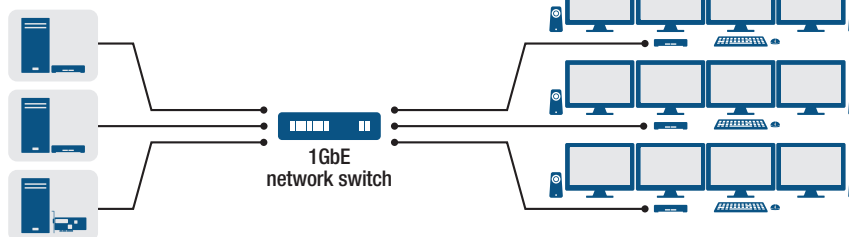
Flexible Operation

- Deploy as a point-to-point or a networked KVM extender, evolving as needs expand while future-proofing investments.
- Transport signals over copper cabling, or optionally upgrade to multi-mode or single-mode fiber optic support.
- Create a scalable KVM matrix over IP, supporting one-to-one, one-to-many, many-to-one or many-to-many configurations.

Point-to-Point Operation



Networked Operation



Smart Control

- Configure, manage, and monitor all Extio 3 devices from a central location on the network via Extio Central Manager software.
- Select and instantly switch to systems through the on-screen-display (OSD) an intuitive user interface that features the thumbnail previews of available source systems.
- Create a secure KVM installation through a password-protected environment—Extio 3 encrypts the AV and USB signals to protect the transmitted desktop content and control signals.
- Integrate with Microsoft Active Directory Services for user authentication¹.
- Employ Simple Network Management Protocol (SNMP) for efficient remote monitoring.



Ease of Integration

- Leverage existing IT networking equipment and standard Gigabit Ethernet infrastructure for seamless deployment and operations.
- Simplify network management with low bandwidth utilization, as well as boost scalability.
- Guarantee a ready fit into certified systems with plug and play deployment—there is no need to install additional software.
- Optimize rack space with two options for the transmitter unit—either a rack-mountable appliance, or an integrated PCIe® card that takes zero rack space.
- Extend up to four video signals, audio and USB using a single copper or fiber optic cable to reduce cost and simplify deployment.



Optimized Collaboration

- Extend systems over standard 1 Gigabit Ethernet—connecting to and controlling systems from any remote location on the IP network—and maximize information flow for improved collaboration and decision making.
- Easily display Extio 3 video streams on a central video wall powered by Matrox Mura IPX Series for effective visualization.
- Make use of the proxy-stream, a secondary video stream compatible with virtually all H.264 decoders—for recording part of the desktop on a network storage device or sharing a screen with other user stations, video walls, and mobile devices.

Markets

Matrox KVM extenders are a perfect fit for many industries. Have a specific idea in mind? Contact our sales team and work together to build a solution.



Process control and
Industrial Automation



Healthcare



Military & Defence



Emergency Operation &
Dispatch Centers



Broadcast &
Post-Production



Transportation



Government



Education

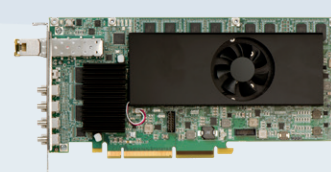
Appliance and Card Images



Matrox Extio 3 N3408
Transmitter Appliance (front/back view)



Matrox Extio 3 N3408
Receiver Appliance (front/back view)



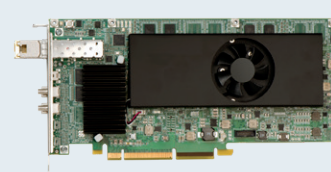
Matrox Extio 3 N3408
Transmitter Card



Matrox Extio 3 N3208
Transmitter Appliance (front/back view)



Matrox Extio 3 N3208
Receiver Appliance (front/back view)



Matrox Extio 3 N3208
Transmitter Card

Specifications

Extio 3 – N3408

N3408 Transmitter Appliance

Connections to Host System

- 1x DisplayPort 1.2 video input connector
- 3x DisplayPort 1.1 video input connectors
- 1x USB 2.0 Type B
- Line in 3.5 mm, line out 3.5 mm, RS-232 9-pin D-type (supported in certain configurations)

Connections to Local Devices¹

- 1x DisplayPort 1.1
- 2x USB 2.0 Type A

Link

- 1x RJ45 network port
- 1x SFP cage (supports SFP multi-mode or single-mode transceiver, sold separately)

General

- Embedded digital audio through DisplayPort, with option to de-embed digital audio on the receiver unit
- Lockable power connector, external 12V power supply unit
- Standalone or rack-mountable unit (1U ½ R)
- Status LED indicators
- On/off and recessed reset button

Part Number

- XTO3-N3408TX

N3408 Transmitter Card

Connections to Host System

- PCI Express x8 connector
- 1x Mini DisplayPort 1.2 video input connector
- 3x Mini DisplayPort 1.1 video input connectors
- 1x USB 2.0 Type mini-B

Link

- 1x SFP cage with RJ45 copper transceiver (upgradeable to fiber multi-mode or single-mode SFP transceiver, sold separately)

General

- Embedded digital audio through DisplayPort, with option to de-embed digital audio on the receiver unit

Part Number

- XTO3-N3408CTX

N3408 Receiver Appliance

Connections to Local Devices

- 1x DisplayPort 1.2 video output connectors
- 3x DisplayPort 1.1 video output connectors
- 6x USB 2.0 Type A
- Line in 3.5 mm, line out 3.5 mm, mic in 3.5 mm, headphone out 3.5 mm

Link

- 1x RJ45 network port
- 1x SFP cage (supports SFP multimode and single-mode transceivers, sold separately)

General

- Option to de-embed digital audio and convert to analog audio
- Lockable power connector, external 12V power supply unit
- Standalone or rack-mountable unit (1U ½ R)
- Status LED indicators
- On/off and recessed reset button

Part Number

- XTO3-N3408RX

Maximum Resolution³

- 1x 3840x2160 @60Hz
- 2x 3840x2160 @30Hz
- 3x 1920x1200 @60Hz
- 4x 1920x1080 @60Hz
- 4x 1920x1200 @50Hz
- 2x 2560x1600 @60Hz

1. Not available at launch. 2. Longer distances supported in networked configurations 3. Other resolutions also supported

Extio 3 – N3208

N3208 Transmitter Appliance

Connections to Host System

- 2x DisplayPort 1.1 video input connectors
- 1x USB 2.0 Type B
- Line in 3.5 mm, line out 3.5 mm, RS-232 9-pin D-type (supported in certain configurations)

Connections to Local Devices¹

- 1x DisplayPort 1.1
- 2x USB 2.0 Type A

Link

- 1x RJ45 network port
- 1x SFP cage (supports SFP multi-mode or single-mode transceiver, sold separately)

General

- Embedded digital audio through DisplayPort, with option to de-embed digital audio on the receiver unit
- Lockable power connector, external 12V power supply unit
- Standalone or rack-mountable unit (1U ½ R)
- Status LED indicators
- On/off and recessed reset button

Part Number

- XTO3-N3208TX

N3208 Transmitter Card

Connections to Host System

- PCI Express x8 connector
- 2 x Mini DisplayPort 1.1 video input connectors
- 1x USB 2.0 Type mini-B

Link

- 1x SFP cage with RJ45 copper transceiver (upgradeable to fiber)
- Multi-mode or single-mode SFP transceiver, sold separately)

General

- Embedded digital audio through DisplayPort, with option to de-embed digital audio on the receiver unit

Part Number

- XTO3-N3208CTX

N3208 Receiver Appliance

Connections to Local Devices

- 2x DisplayPort 1.1 video output connectors
- 4x USB 2.0 Type A
- Line in 3.5 mm, line out 3.5 mm, mic in 3.5 mm, headphone out 3.5 mm

Link

- 1x RJ45 network port
- 1x SFP cage (supports SFP multi-mode or single-mode transceiver, sold separately)

General

- Option to de-embed digital audio and convert to analog audio
- Lockable power connector, external 12V power supply unit
- Standalone or rack-mountable unit (1U ½ R)
- Status LED indicators
- On/off and recessed reset button

Part Number

- XTO3-N3208RX

Maximum Resolution³

- 1x 2560x1600 @60Hz
- 2x 1920x1200 @60Hz

Extio 3 N3208 & N3408

Distance in Point-to-Point²

- OM2, OM3, OM4 (50/125µm) multi-mode cable type – 550 m (1804 ft.)
- OM1 (62.5/125µm) multi-mode cable type – 275 m (902 ft.)
- OS1, OS2 (9/125µm) single-mode cable type – 5 km (3.10 mi.)
- Cat5e, Cat6 – 100 m (328 ft.)

Accessories (Sold separately)

- Multi-Mode Fiber Optic Transceiver (part number: XTO3-SFPM)M)
- Single-Mode Fiber Optic Transceiver (part number: XTO3-SFPM)M)
- Rack Mount Kit (part number: RMK-19TR-A)
- Mini DisplayPort secure cable solution (SK-SLBN-4F)

matrox®
Graphics for Professionals