# Exceptional Remote Performance at Low Bitrate





## **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.





## 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 authentication<sup>1</sup>.
- · 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<sup>®</sup> 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.



## **Appliance and Card Images**



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

Matrox Extio 3 N3208

Transmitter Appliance (front/back view)



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



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



Matrox Extio 3 N3408 Transmitter Card



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 Devices<sup>1</sup>

- 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 x 8 electrical and x16 mechanical
- 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 Resolution<sup>3</sup>

- 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

#### Contact Matrox

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## 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

Extio 3 N3208 & N3408

Distance in Point-to-Point<sup>2</sup>

type - 550 m (1804 ft.)

• Cat5e, Cat6 - 100 m (328 ft.)

Accessories (Sold separately)

Single-Mode Fiber Optic Transceiver

Mini DisplayPort secure cable solution

· Rack Mount Kit (part number: RMK-19TR-A)

Graphics for Professionals

Multi-Mode Fiber Optic Transceiver

(part number: XTO3-SFPMM)

(part number: XTO3-SFPSM)

275 m (902 ft.)

5 km (3.10 mi.)

(SK-SLBN-4F)

• OM2, OM3, OM4 (50/125µm) multi-mode cable

OS1,OS2 (9/125µm) single-mode cable type –

OM1 (62.5/125µm) multi-mode cable type –

### (supported in certain configurations)

- Connections to Local Devices<sup>1</sup>
- 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 x 8 electrical and x16 mechanical
  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

· Option to de-embed digital audio and convert

Lockable power connector, external 12V power

Standalone or rack-mountable unit (1U ½ R)

#### Link

General

• 1x RJ45 network port 1x SFP cage (supports SFP multi-mode or

to analog audio

 Status LED indicators · On/off and recessed reset button

Maximum Resolution<sup>3</sup>

1x 2560x1600 @60Hz

• 2x 1920x1200 @60Hz

supply unit

Part Number • XTO3-N3208RX

single-mode transceiver, sold separately)