

NEOUS SECURE CROSS-DOMAIN

KVM AND VIDEO MATRIX SOLUTIONS

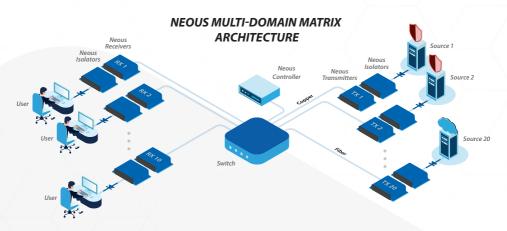


THE SOLUTION

WHAT IS NEOUS?

Neous is a secure KVM over IP solution, implementing flexible and scalable KVM/AV matrix solutions for working securely with multiple sources of different classifications when users and sources are physically separated from each other.

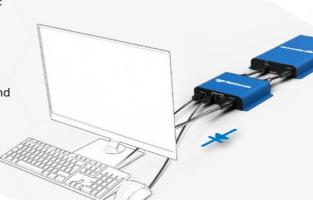
- Flexible and scalable –
 Deploy only what you need and expand as you grow
- Secure Based on NIAP certified components. Uses advanced encryption and Network Access Control (NAC)
- Prevents data leakage in a cross-domain, multi-classification environment
- · Fast zero-latency switching



Using Neous, securely implement the most common cross-domain matrix solutions:

- KVM matrix
- · Video matrix

Neous is perfect for control rooms, command and control centers, operational centers and other demanding applications where multiple users interact with many sources across multiple domains.



SECURITY HIGHLIGHTS

With Neous, work in a cross-domain, multi-classification environment securely without the threat of data leaks, insertion of malicious code or unauthorized use by using the highest security components available:

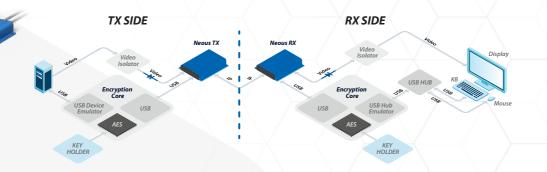
- Host and destination isolation using NIAP PP4.0 for PSD certified KVM and video isolators create a domain agnostic network for KVM and video matrix implementations.
- Uses pre-certified components and Industry standard tools assuring isolation and data leakage immunity.
- Isolator auto-sensing enforces system use only with NIAP certified isolators.
- AES 256 CBC encrypted HID traffic prevents man-in-the-middle attacks
- Secure EDID pass-through assures unidirectional information flow



- 802.1x NAC and NIAP PP for Network Devices Version 2.23 compliance prevent unauthorized connects.
- HTTPS encrypted management communication
- MAC address authentication



The Neous isolation core implements HW enforced unidirectional data flow and encrypts/decrypts the HID data.



NEOUS

COMPONENTS

Neous components are available for 10Gbps fiber and copper networks.

TRANSMITTER

- Video Matrix: Zero-latency video encoding and transmission
- KVM Matrix: Zero-latency encoding and transmission of video, reception and decryption of keyboard and mouse.

Both types of transmitters are operational only when connected to the linked Neous Isolator.



ISOLATOR

- Video Matrix: NIAP PP4.0 PSD certified video isolator.
- KVM Matrix: NIAP PP4.0 PSD certified KVM isolator.



RECEIVER

- Video Matrix: Zero-latency video reception, decoding and multiview support.
- KVM Matrix: Zero-latency video reception and decoding; encryption and transmission of keyboard and mouse.

Both types of receivers are operational only when connected to the linked Neous Isolator.



CONTROLLER

Implements the logic for the solution type (KVM or Video matrix), performs the mapping of sources to users, along with user/source permissions. Manages the distribution of encryption keys.

TRANSMITTER & RECEIVER MAIN FEATURES DP/HDMI 4K30Hz 4,4,4 USB HID Type B/A (TX/RX) (KVM only) 10Gb Ethernet for video/audio, 1Gb for control SFP+ port for fiber Encrypted USB HID (KVM only):

• NAC, 802.1X, SSL

AES 256 CBC

CONTROLLER

FEATURES

- KVM switching (KVM matrix only)
- · Video only switching
- · Video matrix multiview support
- TX/RX configuration
- Permissions Management



ORDERING INFORMATION

MODEL	ТҮРЕ
SVFX10PHT-M	Neous Fiber Video Matrix TX with Linked Isolator
SVFX01PHR-M	Neous Fiber Video Matrix RX with Linked Isolator
SVCX10PHT-M	Neous Copper Video Matrix TX with Linked Isolator
SVCX01PHR-M	Neous Copper Video Matrix RX with Linked Isolator
SKFX10PHT-M	Neous Fiber KVM Matrix TX with Linked Isolator
SKFX01PHR-M	Neous Fiber KVM Matrix RX with Linked Isolator
SKCX10PHT-M	Neous Copper KVM Matrix TX with Linked Isolator
SKCX01PHR-M	Neous Copper KVM Matrix RX with Linked Isolator
MCV11EC-M	Neous Video Matrix Controller
MCK11EC-M	Neous KVM Matrix Controller

HIGH SEC LABS (HSL)

DEVELOPS HIGH-QUALITY CYBER-DEFENCE SOLUTIONS FOR PROTECTING NATIONAL ASSETS AND INFRASTRUCTURE IN THE FIELD OF NETWORK AND PERIPHERAL ISOLATION.

