

NEOUS MANAGEMENT SYSTEM

The Neous management system is the central control and security manager of the Neous Multi-Domain IP Matrix, defining and enforcing user and source permissions, mapping connections between endpoints, and securely distributing encryption keys across the network.

The IP Matrix provides a standards-based, secure Video and KVM-over-IP framework that enables flexible, many-to-many connectivity between source computers and user workstations, with the management system

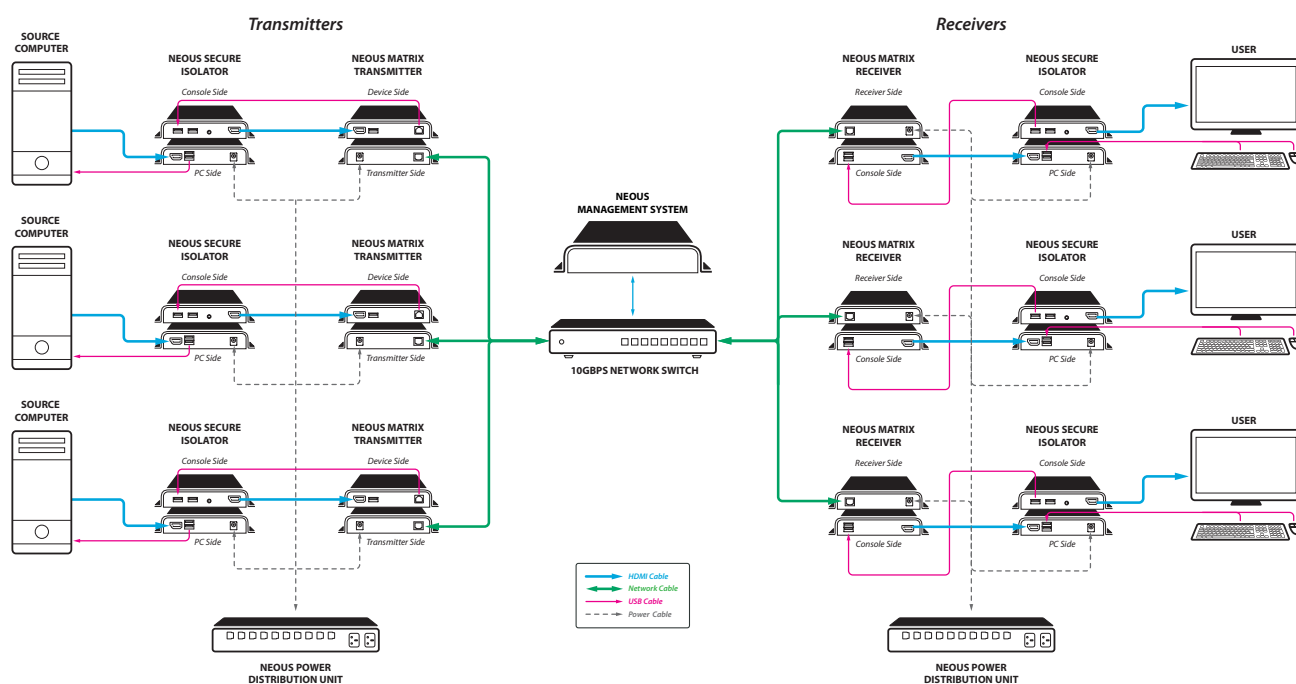
acting as the single point of control to support scalable expansion, centralized policy enforcement, and secure operation with zero latency.



KEY FEATURES

- **Matrix Management:** Oversee the connections between every Transmitter and Receiver Endpoint of the Neous Multi-Domain IP Matrix.
- **Scalable Connectivity:** Manage up to 300 Transmitter and Receiver Endpoints simultaneously. Cascading multiple management systems together can scale the IP Matrix.
- **Source/User Management:** Identify, register, and define the permissions of each Transmitter and Receiver, ensuring every source and user is only allowed to connect to other endpoints according to their permission classification.
- **Zero-Latency Switching:** Connect, disconnect, and switch Transmitters and Receivers instantaneously.
- **Power over Ethernet:** (Optional) Provide power to connected Transmitters or Receivers over the Ethernet cable.
- **UHD Multi-Viewing Capabilities*:** (Coming Soon) Connect multiple Transmitters to a single Receiver to create a UHD 4k multi-view configuration.
- **UHD Videowall Capabilities*:** (Coming soon) Connect a single Transmitter to multiple Receivers to create and configure a UHD 4k videowall.
- **All communications between the management system and the endpoints are secured (HTTPS).**

Neous Multi-Domain Matrix System Diagram



SPECIFICATION

MODEL NUMBER		MCK11EC-MD
Platform		Dell OptiPlex 7020 MFF
Core Processor		Intel i5 processor 14500 vPro
RAM		8GB DDR5, 48mm MT/s
Solid State Drive		NVMe, 256GB
Copper Link Port		1x RJ45, 1 Gbps
PORTS		
Video Ports		1x DP, 1x HDMI
USB		Front: 1x USB 3.2 Type A, 1x USB 3.2 Type C, Back: 2x USB 2.0 Type A, 2x USB 3.2 Type A
PHYSICAL		
Dimensions		36x178x182mm / 1.42x7.01x7.17 in
Weight		1.09 kg / 2.41 lb
POWER		
Power Supply Type		External Power Adapter
AC Input		100 VAC - 240 VAC
Power Output		19.5 VDC
Max Power Consumption		90W
ENVIRONMENTAL		
Operating Temperature		10°C to 35°C / 50°F to 95°F
Storage Temperature		-40°C to 65°C / -40°F to 149°F
Humidity		20%-80% RH, non-condensing
SOFTWARE		
Supported OS		Linux (Yocto-based)
GENERAL INFO		
Manufactured		TAA/BAA Compliant
Product Lifecycle		10 Years
Product Warranty		2 Years

IMPORTANT NOTE: The Neous IP Matrix requires connection to a 10Gbps network.

ORDERING INFORMATION

MODEL NO.	P/N	DESCRIPTION	QTY
MCK11EC-MD	CPN38718	Neous IP Matrix Controller	1
		Wall-Mounted 12v DC Power Supply	1

Note:

High Sec Labs reserves the right to change the Neous Management System hosting platform. Core IP Matrix management functionality remains independent of the underlying hardware platform.