



KEYBOARD, VIDEO, MOUSE MINI-MATRIX SWITCHES

THE SOLUTION

WHAT IS A MINI-MATRIX KVM?

A Mini-Matrix provides monitoring and control of **two** computers out of a group of four or eight by using **two** displays and sharing a single keyboard-and-mouse set.

With the Mini-Matrix users can:

- Free up their desktops from the clutter of multiple peripherals
- Access two selected computers simultaneously

A Mini-Matrix is ideal for meeting rooms and control centers, where multiple computers have to be presented - at the same time - on two displays. For example:

- In control centers, where information from several sources needs to be continuously displayed in real-time.
- In meeting rooms, where both visitor and host computers are viewed and controlled simultaneously.



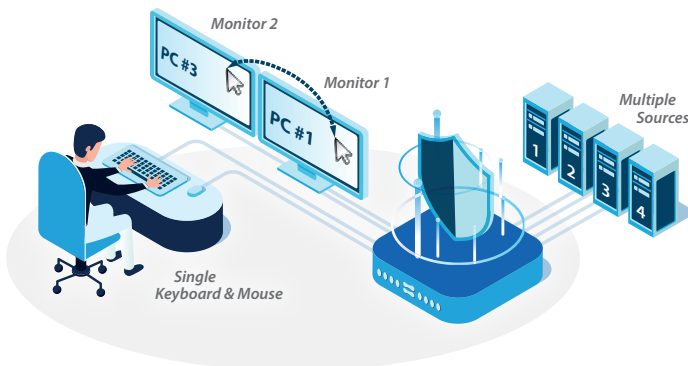
SX42PHU-N

SIMPLE SET UP

PRODUCT CONNECTION DIAGRAM

To set up the Mini-Matrix KVM, connect:

- **PCs to the computer/source ports:**
Connect each computer's display, USB, and audio cables to the Mini-Matrix KVM's corresponding computer port.
- **Peripherals to the console ports:**
Connect the monitor, keyboard, mouse, and speaker/headphone to the console ports.



HSL KVM MINI-MATRIX

PRODUCTS FAMILY MODELS

MODEL	SX22H-N SX42HU-N	SX42PHU-N SX82PHU-N	SX4/82PH-4 SX4/82PHU-4	SX82PHU-4TR
MAIN FEATURES				
Description	HSL's 2/4-Port HDMI Commercial KVM Mini-Matrix	HSL's 4/8-Port DP/HDMI Commercial KVM Mini-Matrix	HSL's 4/8-Port DP/HDMI Secure KVM Mini-Matrix, NIAP PP4.0 PSD Certified	HSL's 8-Port DP/HDMI Secure, Rugged, TEMPEST Compliant, NIAP PP4.0 Certified KVM Mini-Matrix
Supported Resolution	Up to 4K 30HZ 4:4:4	Up to 4K 60HZ 4:4:4	Up to 4K 60HZ 4:4:4	Up to 4K 60HZ 4:4:4
KB\Mouse\ Touch Displays	2	2	2	2
Additional USB Ports	3 x USB 3.0 (SX42HU-N only)	3 x USB 3.0	1 x USB 2.0 (CAC) (PHU Units only)	1 x USB 2.0 (CAC)
Connectors	HDMI	Unique Dual DP/HDMI	Unique Dual DP/HDMI	MIL-DTL-38999 using special cables
Analog Audio	Mic+Speaker Ports	Mic+Speaker Ports	Speaker Only	No



SX22H-N



SX42PHU-4



SX82PHU-4TR

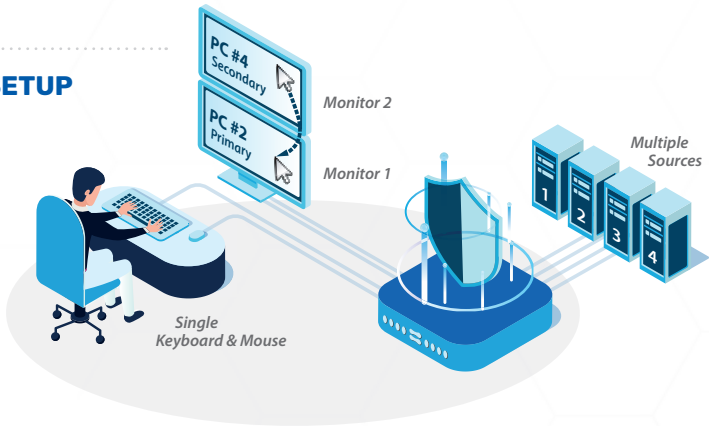


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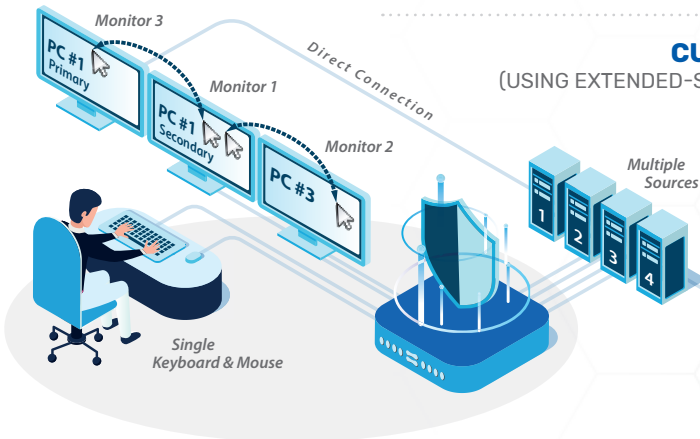
FLEXIBLE SCREEN LAYOUT

The Mini-Matrix KVM supports creating various display layouts presets, customized to user needs. Users can align displays vertically (on top), horizontally (alongside), and custom (using extended-screen presets).

VERTICAL SETUP (ON TOP)



CUSTOM SETUP (USING EXTENDED-SCREEN PRESETS)



KVM MINI-MATRIX HIGHLIGHTS

- **NIAP Common Criteria PP4.0 Compliant**

HSL Mini-Matrix KVMs qualify to the latest NIAP Common Criteria Protection Profile version 4.0 (PP4.0) certification for peripheral Sharing Switch (PSD) devices.

- **Easy switching between connected computers** simply by dragging the mouse from screen to screen. KB and audio will follow the mouse switching.

- **Flexible setups**

Multiple setups predefined including additional connected displays and a mix of Dual and Single head computers.

- **The ideal KVM switch for meeting rooms and control centers**

Best suits scenarios where one or more computers must be presented simultaneously on multiple displays. For example:

- > In control centers where information from several sources must be constantly displayed in real-time.
- > In meeting rooms where both visitor and host computers are to be viewed and controlled simultaneously.

- **4K 60HZ - Never compromise on video quality**

High resolution 4K 60HZ 4:4:4 for the most demanding users.

- **Flexible switching of the video/USB/audio/keyboard & mouse ports between computers**

Use the front-panel push buttons to flexibly switch the video/USB/audio/keyboard & mouse ports between the primary and secondary computers.

- **Freeze ports to a source computer**

- > When a USB smart card reader must remain mapped to a certain computer while the keyboard, video, mouse and audio are switched to another computer.
- > When a user listens to audio originating from one computer while working on another computer.

- **DP/HDMI Combined Connector**

Allows connecting both types of cables – Display Port and HDMI.



- **Avoid typing mistakes**

Since two-way communication is blocked by the Mini-Matrix's security, keyboard lock LEDs do not function. Helps users avoid typing mistakes by visually indicating the status of keyboard locks (CAPS-LOCK | NUM LOCK | SCROLL LOCK) on the product's front facing panel.

- **Work simultaneously on two computers, while viewing the screens of four computers**

Connect up to four computers and two displays to the Mini-Matrix. Select which computer to display on each of the two attached monitors. Displays can be positioned in various layouts (Horizontal / Vertical / Custom). Duplicate the screen of any computer by presenting it on both Mini-Matrix displays at the same time. Extend the screen of any computer by using additional external displays.

- **Secure models certified to NIAP Common Criteria PP4.0 PSD**

Prevent data leaks between sources.



SC162PH-4

HSL KVM MINI-MATRIX SWITCHES

ARE TAA AND BAA COMPLIANT
AND ARE BUILT IN THE HSL FACILITY
IN HUNTSVILLE, AL

HIGHSECLABS

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



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