

HSL Company Profile



About **HSL**

High Sec Labs is a leading manufacturer of cyber security products, protecting secure and sensitive organizations.

HSL's cyber mission is to create products that withstand attacks by even the most sophisticated attacker.

HSL and its customers believe in **HW** and **physical isolation** as a security mechanism, instead of SW and statistical tools.



HIGHSECLABS COMPANY PROFILE

- Founded in 2008, privately owned
- Locations in Israel and the USA, 300 employees,
 100 R&D Positions
- HSL possesses all development expertise internally (HW, SW)
- Secure manufacturing facilities & supply chain in Israel and the US
- Multiple international certifications NIAP/Common Criteria/TEMPEST
- IP Over 70 patents granted, dozens more submitted









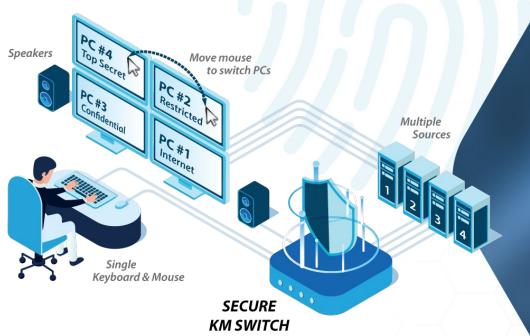
AREAS OF ACTIVITY

HSL creates HW-based cyber-security solutions for organizations with multiple isolated networks of different classifications. HSL's products:



- Protect networks from data leakage & malicious code
- Securely allow cross-domain data transfers
- Improve workflow and simplify tasks

HSL operates globally with a broad off-the-shelf product portfolio that is **customizable** as required. Products are TAA/BAA compliant, manufactured using secure supply chains.



PRODUCT FAMILIES AND USE

Product Families	Control Room	Meeting Room	Secure Desktop	Defense
KVM Switching Family	✓	√	\checkmark	
Neous KVM/AV Over IP Matrix	\checkmark			
Cross Domain Solutions	\checkmark		\checkmark	\checkmark
KVM and Video Isolators	\checkmark	✓		
KVM and Video Extenders	\checkmark	\checkmark		
<u>Audio Diodes</u>		✓	\checkmark	
Rugged Products				\checkmark
Babylon Secure Communications	✓	✓	\checkmark	



VERTICALS

Defense



Healthcare



Government & Critical Infrastructure

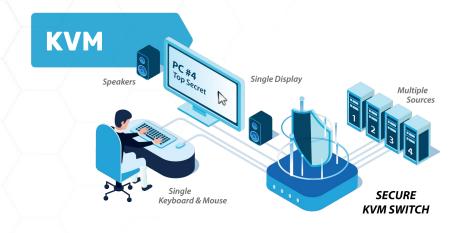


KVM SWITCHING SOLUTIONS

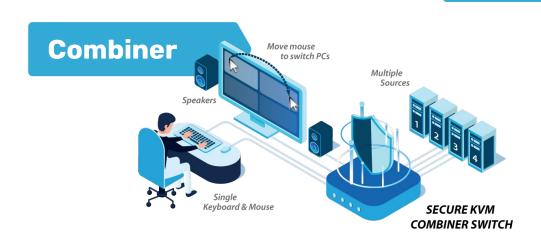
- HSL's solutions prevent exploiting vulnerable peripherals from leaking information between classified and non-classified networks.
- Air gapping effectively protects against cyber threats in a classified environment yet creates usability issues.
- HSL's solutions protect and isolate peripherals and networks while permitting an easy and intuitive user experience in an air gapped environment.
- Available in secure and commercial versions

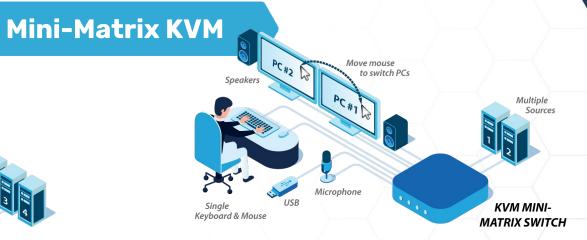


KVM SWITCH FAMILY





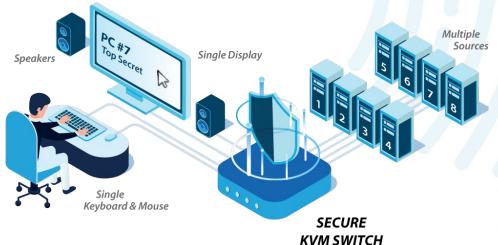




SECURITY HIGHLIGHTS

The need for a secure switch:

- Interaction with multiple computer sources on multiple domains of different classification levels, including Internet
- Peripheral devices have security vulnerabilities that are exploitable for:
 - Data leaks, signaling, & malicious code attacks
- Common Criteria provides an internationally accepted standard for sharing peripherals between computers
- NIAP (National Information Assurance Partnership) is the NSA's certifying body in the US.
- HSL's products are compliant with the latest Common Criteria/ NIAP requirements.
- TEMPEST is an advanced requirement for defense applications.
 HSL has a TEMPEST compliant product line.





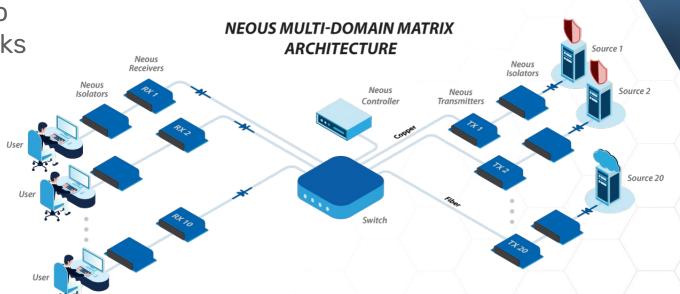




NEOUS SECURE MULTI-DOMAIN

MATRIX ARCHITECTURE

- SECURE isolated multi-domain KVM/Video matrix solutions
- Prevents data leakage between domains in a cross-domain/ multi-classification environment
- Scalable solutions for KVM & video matrix using a set of building blocks and software applications.
- HID encryption: AES 256 CBC
- Network security:
 - 802.1x NAC
 - MAC filtering
- NIAP/Common Criteria PP4.0 Certified Components



CROSS DOMAIN SOLUTIONS

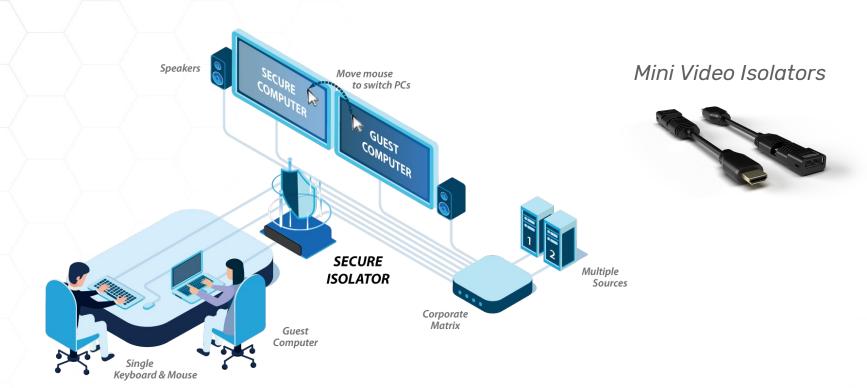
- Application <u>specific</u> products isolate and filter specific applications or protocols
- <u>Cost effective</u> designed for desktop installation & workflow improvement
- <u>HW-based security & filtering</u> rely on HW instead of SW or statistical tools
- No infrastructure changes needed easy to install & available for immediate deployment
- Products include
 - RS232, XML, JSON Diodes & Filter
 - File Transfer Diode
 - H.264/5 Diode & Filter
 - RDP Diode & Filter







ISOLATORS



Secure, NIAP PP4.0 certified Isolators filter computer video and USB data and enforce unidirectional data flow. This prevents shared peripheral-threats from compromising network security. The Isolator ensures that only permitted data is transferred from the source to the destination.

Galvanic Isolator



Video Isolator



Video & HID Isolator





EXTENDERS

- BAA/TAA Compliant
- Diversified Portfolio
 - Fiber or copper extension
 - DP or HDMI
 - 4K 30Hz or 4K 60Hz
 - USB 2.0
 - USB 3.0
 - USB C extension
- Extra Long Range
 Using either Fiber (10KM) or
 Copper (100m) to connect
 between source and peripherals.
- DP/HDMI Combo Connector
 Allows connecting both type of cables Display Port and HDMI, including format conversion.

POE & POC Support
 Power an Extender RX via POE using 48V connected to TX unit, or POC using 12V connected to the TX or RX unit, depending on the model.







AUDIO DIODES

Audio Diodes:

- Keep the microphone/webcam in a normally closed state
- Prevent repurposing a loudspeaker as a microphone
- Block data exfiltration high frequency transmissions



The Audio Diode mitigates the risks of using peripheral audio devices in organizations with multiple isolated networks. The device connects between a source PC and a peripheral audio device (speaker/headphone or microphone) and prevents attackers from exploiting audio data leakage vulnerabilities.



RUGGED FAMILY







Remote Controls









- MIL-SPEC 810, 1275, 461, IP67 Compliant.
- NIAP PP4.0 PSD Compliant
- TEMPEST Level A Compliant



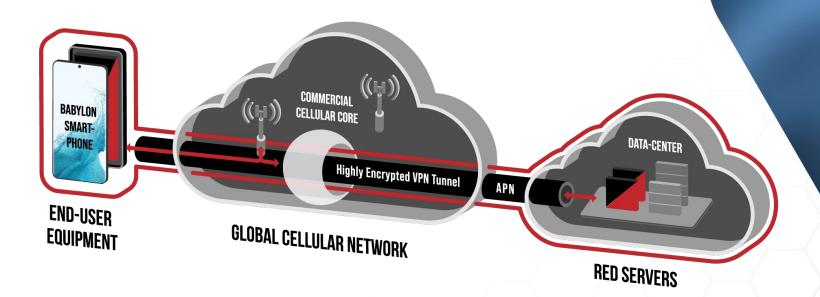


Asset Tracking

An off-the-shelf family of customizable products for military environments

BABYLON SECURE CELLULAR





Babylon:

A military-grade encrypted communication system using public cellular networks

ACCESSORIES



Secure Card Readers



HDMI Splitters



Rack Mounts



Remote Controls



USB Locks



Power Distribution



USB-C Docking





Thank You For more info:









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