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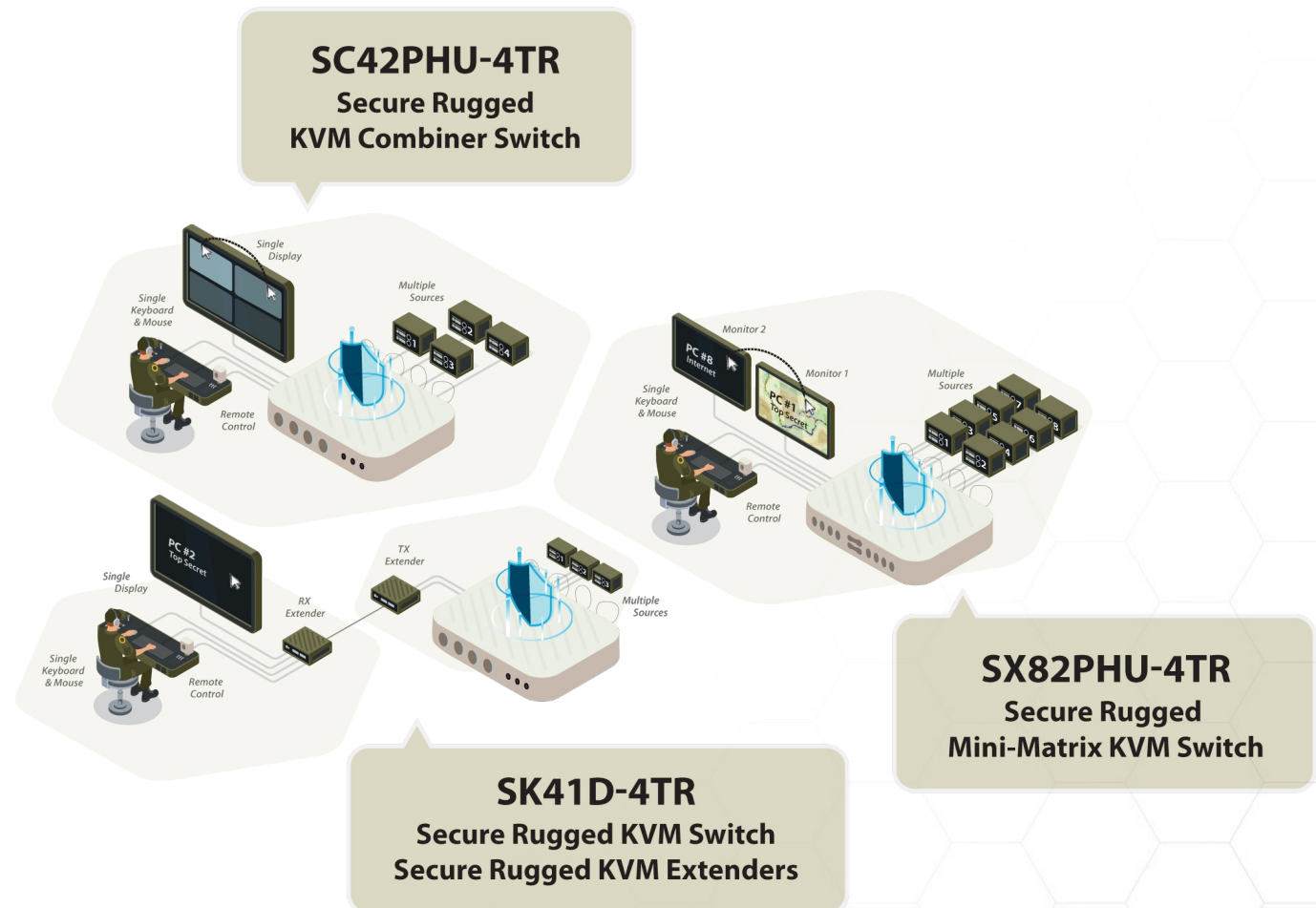
A Suite of Rugged Cyber- Secure Products

A peripheral sharing product suite for field conditions in
a multi-classification domain network environment



RUGGED CROSS-DOMAIN PRODUCT SUITE

- Brings HSL's leadership in network isolation to the battlefield.
- Interact with multiple computers of different classification levels easily and securely.
- Improve situational awareness, workflow, access to information, communications and asset-monitoring
- NIAP/Common Criteria PP4.0, TEMPEST Level A, MIL-STD: 461, 1275, 810 compliant
- The suite includes products for KVM switching and multi-view video combining and scaling & extenders



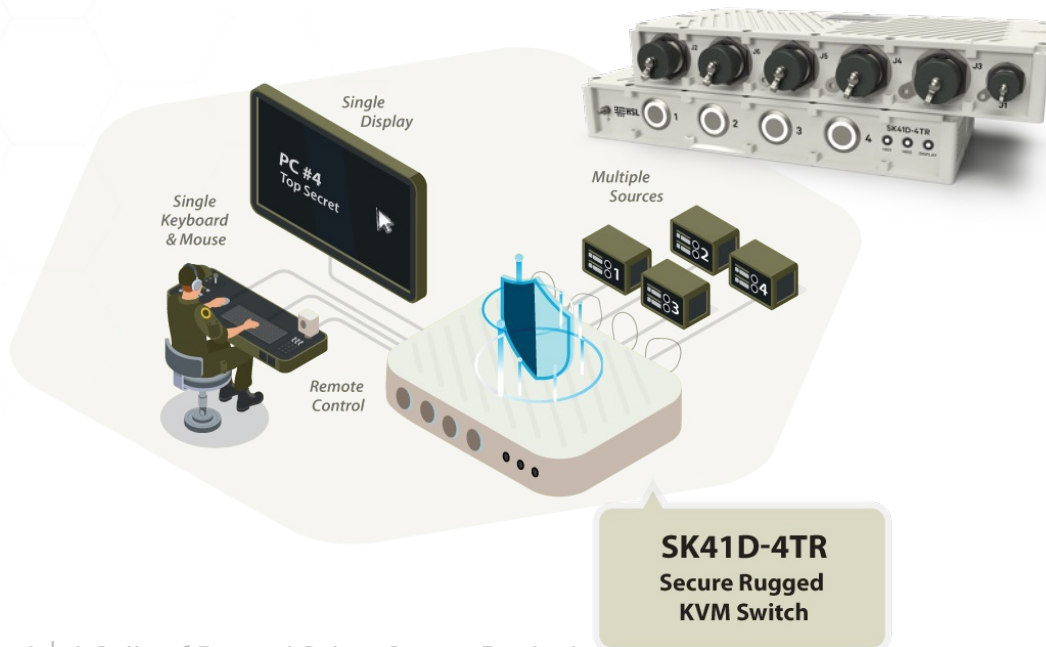


Rugged KVM Switching and Extenders

RUGGED & SECURE KVM FAMILY

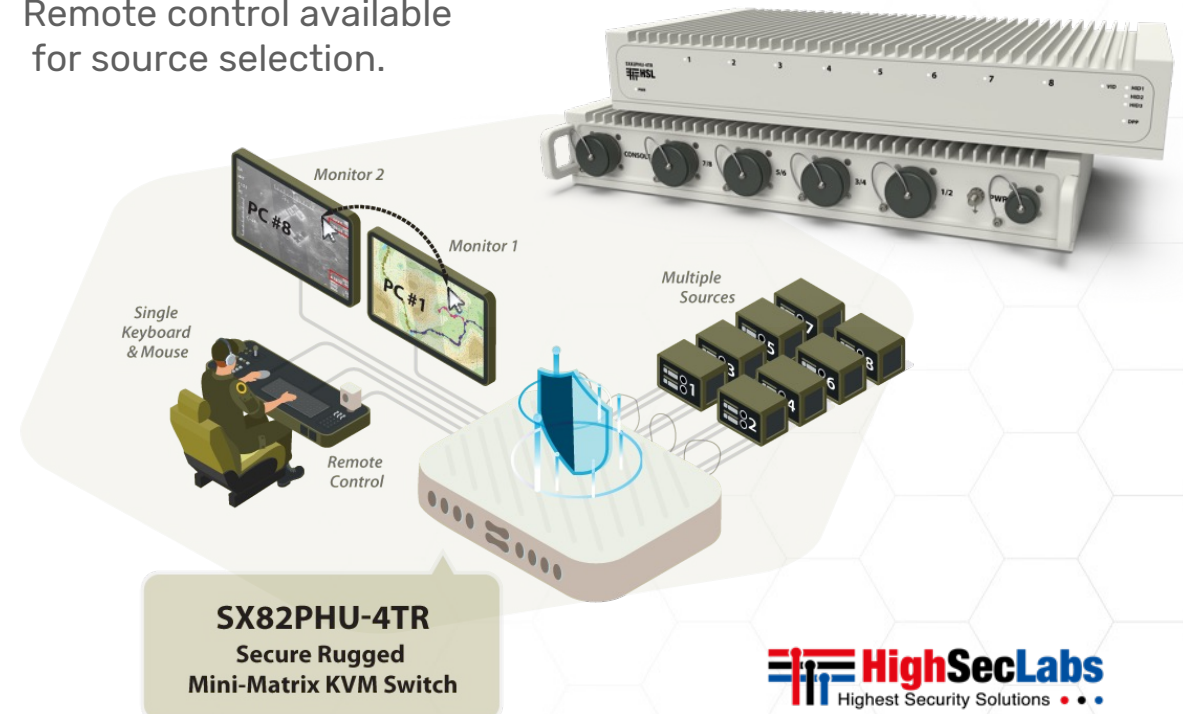
KVM Switches

- Share a single set of peripherals (mouse, keyboard, display) across multiple computers.
- Switch the entire set of peripherals as a group between sources by pushing the KVM buttons or remote control.



Matrix Switch

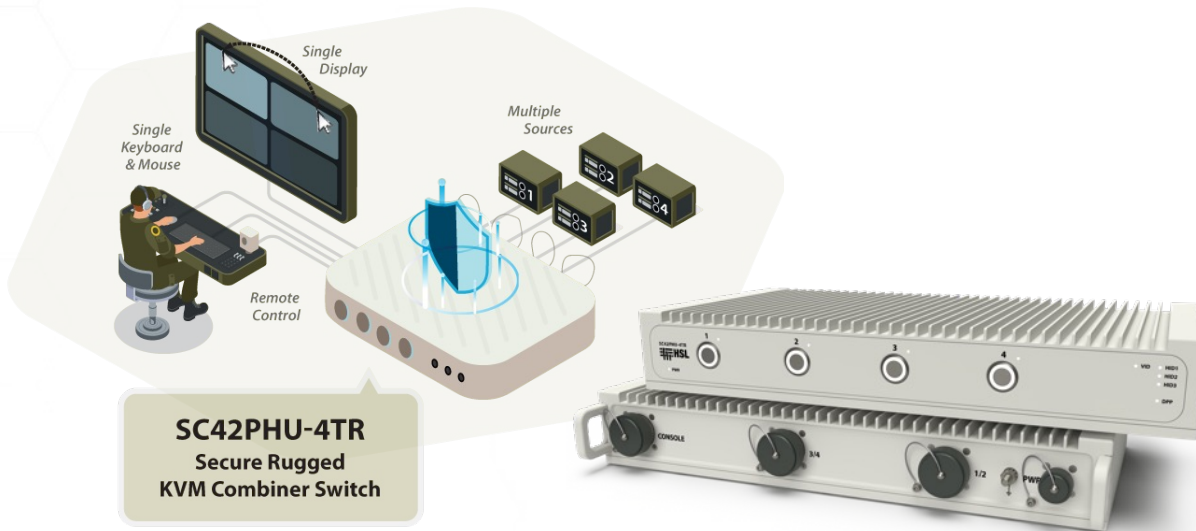
- Any combination of host video sources can be routed to the two console displays (one source per console display)
- Dragging the mouse to a console display associates the mouse and keyboard with the displayed source computer (automatic switching with no need to press a button).
- Remote control available for source selection.



RUGGED & SECURE KVM FAMILY

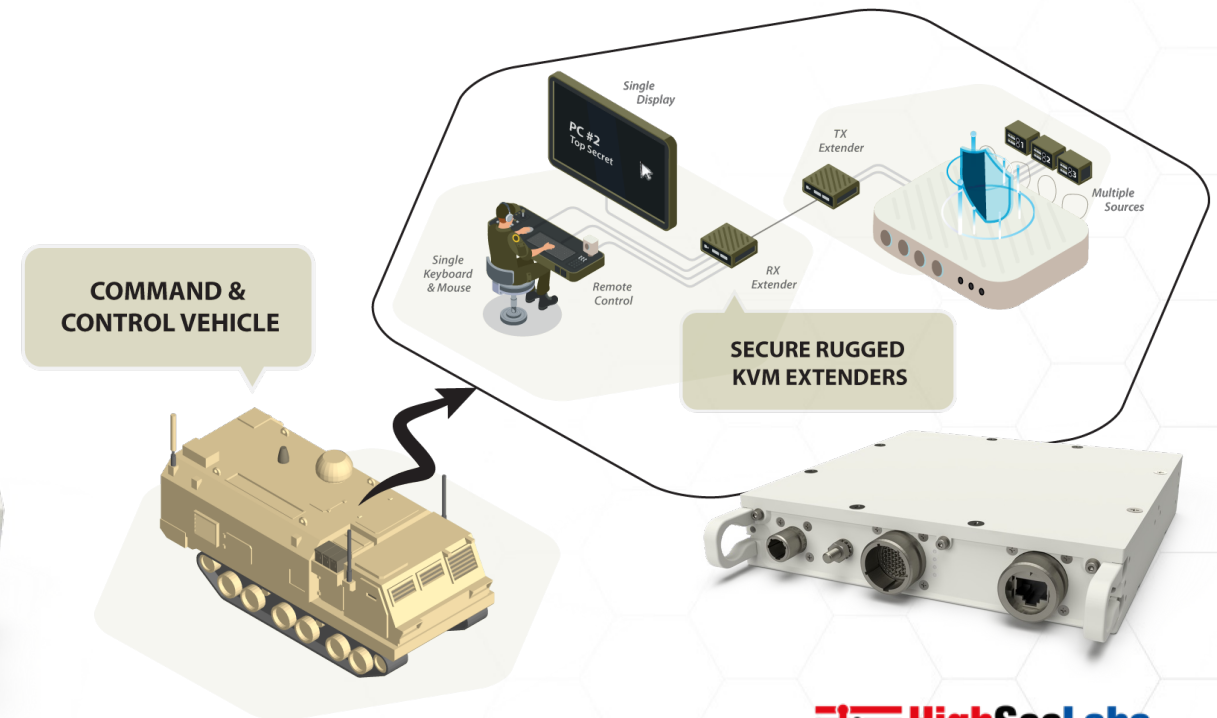
Combiner

- Video sources can be combined and scaled to display up to 8 sources on the 2 console screens.
- Drag the mouse to a video window to give the keyboard & mouse control over that source.
- Video sources can be scaled and dragged between the 2 console screens using the mouse.



Extenders

- Extend the host or console video, USB and remote control signals across fiber or copper cable
- Simplifies installation & workflow



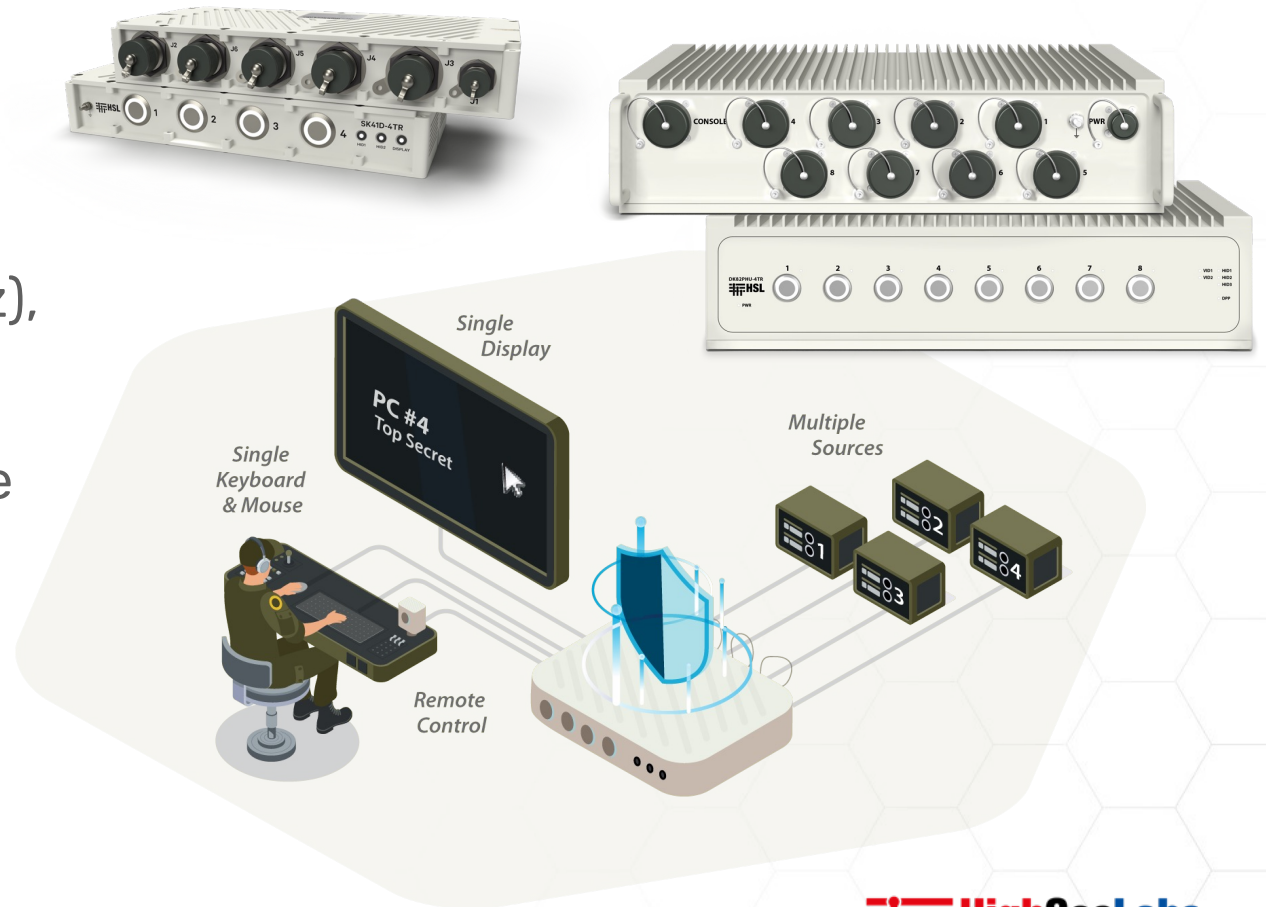
RUGGED KVM SUITE – COMPLIANCE

- Fully rugged and designed for use in deployed military vehicles and C2 centers.
Compliant to:
 - MIL-HDBK-216
 - MIL-STD-810
 - MIL-STD-1275
 - MIL-STD-461
- 65,000 hours MTBF
- Fully secure – No data leaks between channel-isolated sources
 - Compliant with NIAP/Common Criteria PP4.0 for PSD (Peripheral Sharing Device)
 - TEMPEST Level A compliant
- IP67 compliant illuminated buttons.
NVG option available



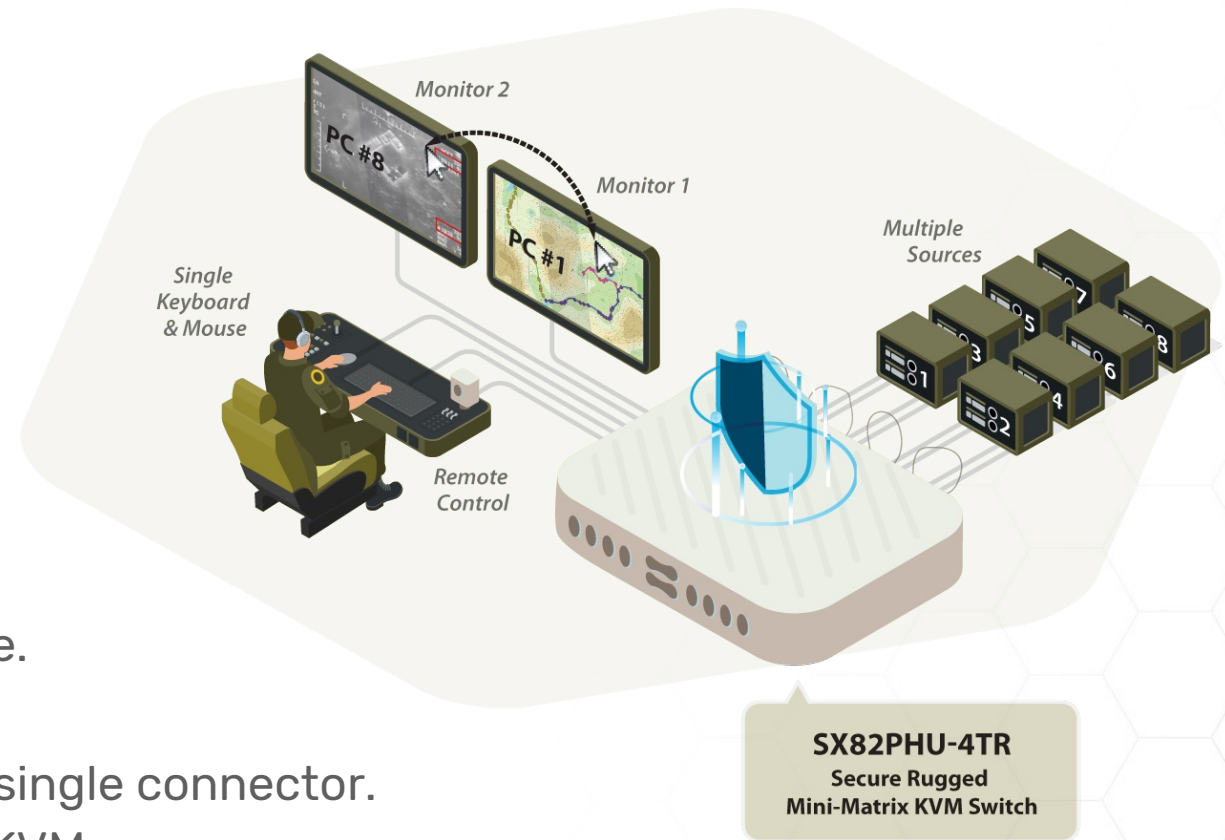
RUGGED KVM SUITE – KVM

- 4-port SH and 8-port DH versions
- Video resolutions up to 4K@30Hz or 3440x1440@60Hz
 - DisplayPort, DVI-D (1920x1200@60Hz), HDMI supported
- Mouse, KB, CAC and optional RC via single connector.
- Select sources using RC or buttons



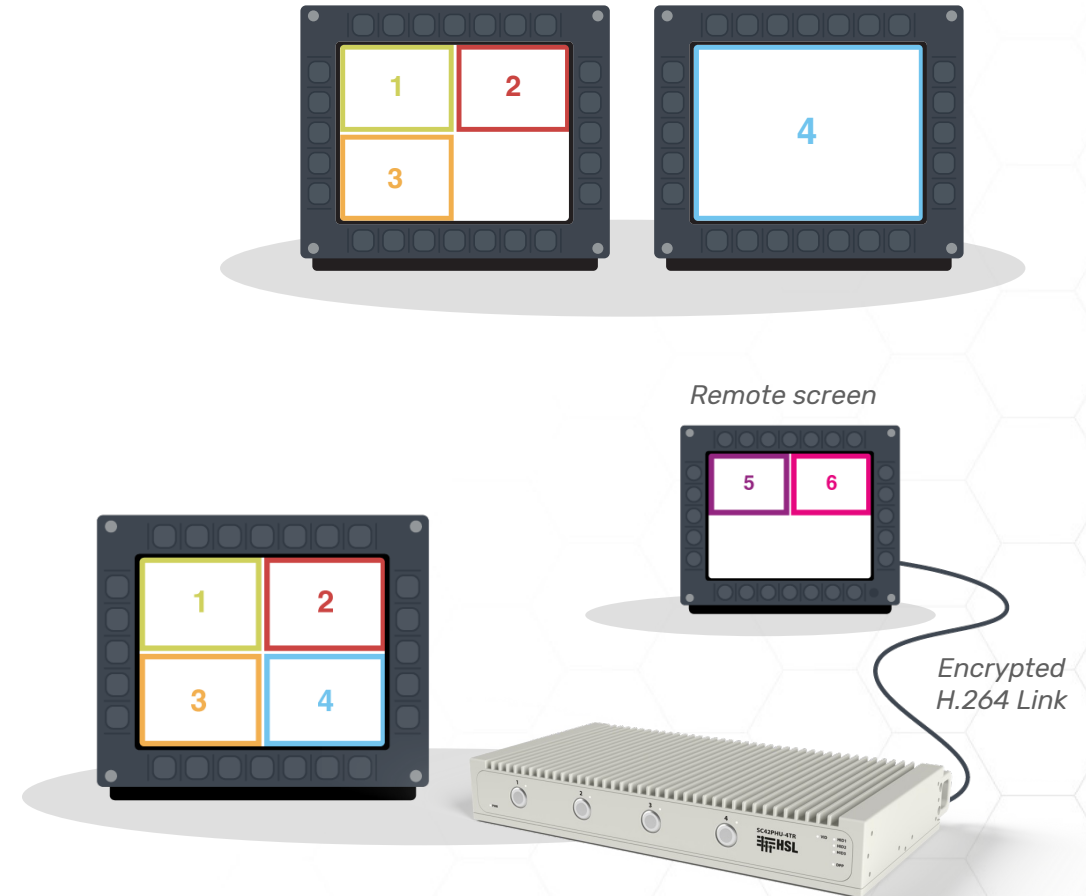
RUGGED KVM SUITE – MATRIX

- 8 / 4 source inputs, 2 console displays
 - Display any source on either of the console displays.
- DP/HDMI supported
- Video resolutions up to 4K@30Hz or 3440x1440@60Hz
- Switch smoothly between displayed hosts via mouse/trackball movements
 - Keyboard, CAC become associated with the host computer selected by mouse.
- Remote control for source selection
- Mouse, KB, CAC reader & remote control via single connector.
- Configurable as a single-head or dual-head KVM.



RUGGED KVM SUITE – COMBINER

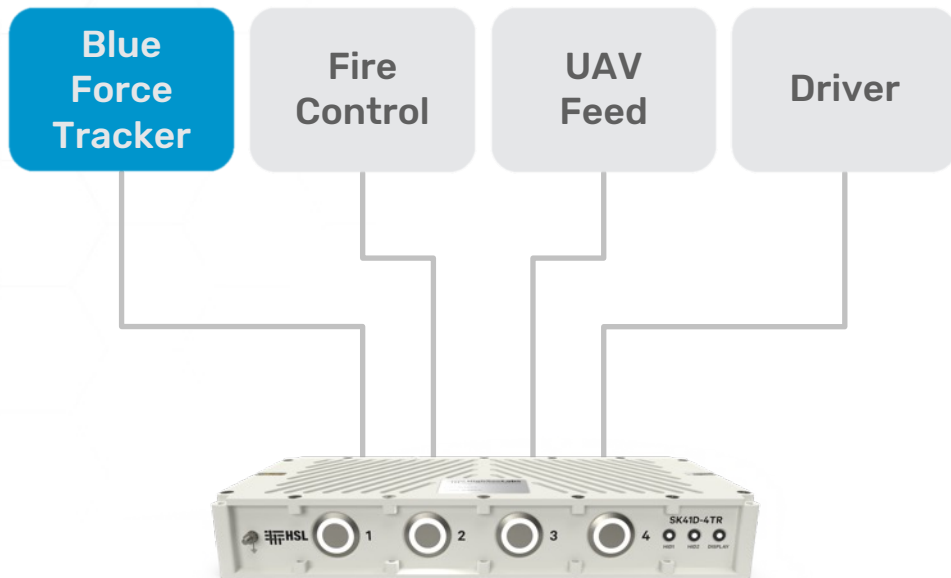
- Configurations designed for vehicle deployment:
 - 4/8/16 host, 2 display screens
 - Display any combination of 4/8/16 video sources across 2 display screens
- Option: H.264 encoded video stream
 - Ethernet encrypted **H.264 streaming link**
 - H.264 stream comes instead of 2nd console display
- Video supported up to 4K@30Hz or 3440x1440@60Hz
 - Both DisplayPort and HDMI supported



Use Cases

USAGE SCENARIO - KVM

Single Display, Monitoring/Controlling up to 4 Onboard Systems.



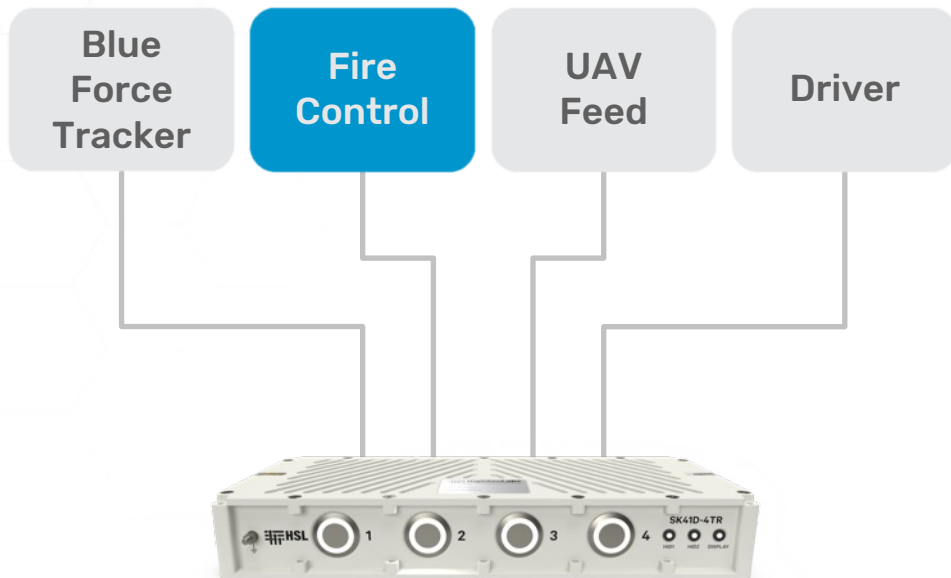
KVM Switch Front Panel



1. Blue Force Tracker

USAGE SCENARIO - KVM

Single Display, Monitoring/Controlling up to 4 Onboard Systems.



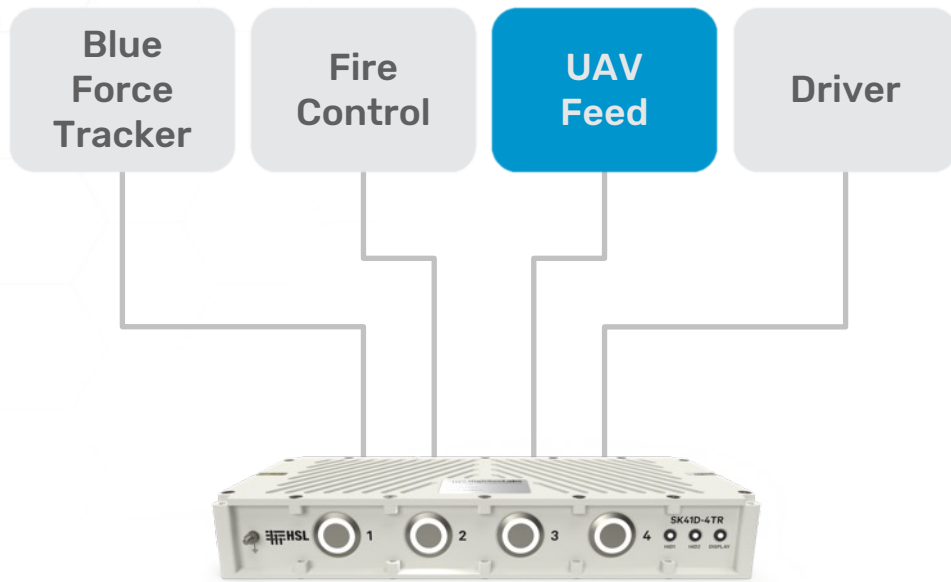
KVM Switch Front Panel



2. Fire Control

USAGE SCENARIO - KVM

Single Display, Monitoring/Controlling up to 4 Onboard Systems.



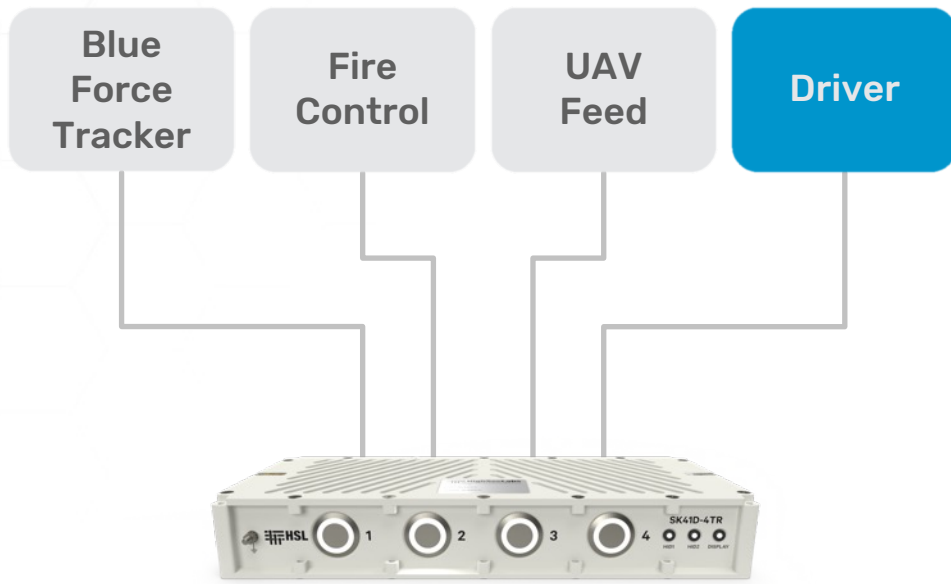
KVM Switch Front Panel



3. UAV Feed

USAGE SCENARIO - KVM

Single Display, Monitoring/Controlling up to 4 Onboard Systems.



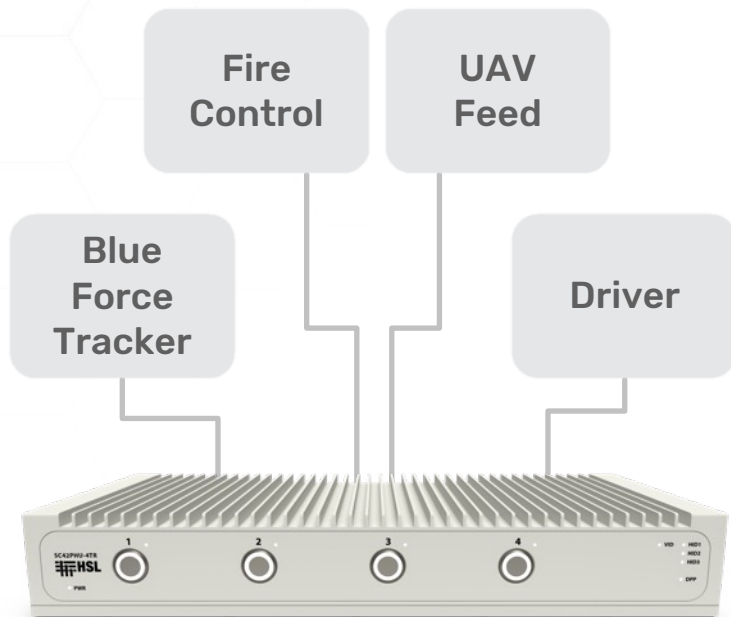
KVM Switch Front Panel



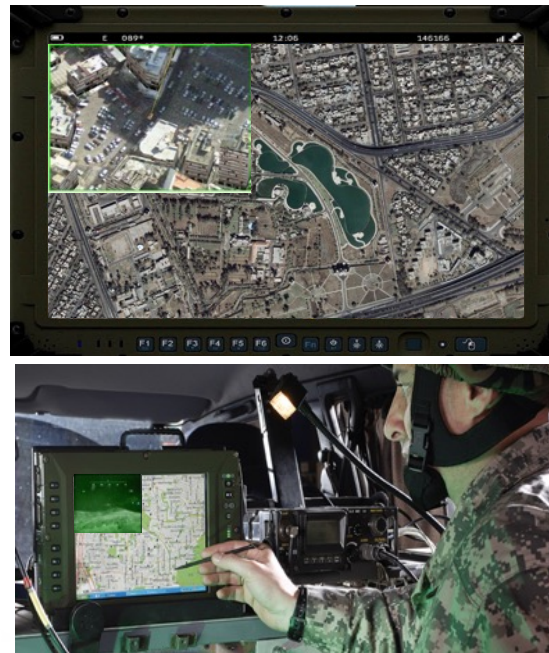
4. Driver's Camera

USAGE SCENARIO - COMBINER

- A **single** crew position can Monitor, Control and Display **four** onboard systems. The configurable display can show one, or all systems simultaneously.



Combiner KVM Switch



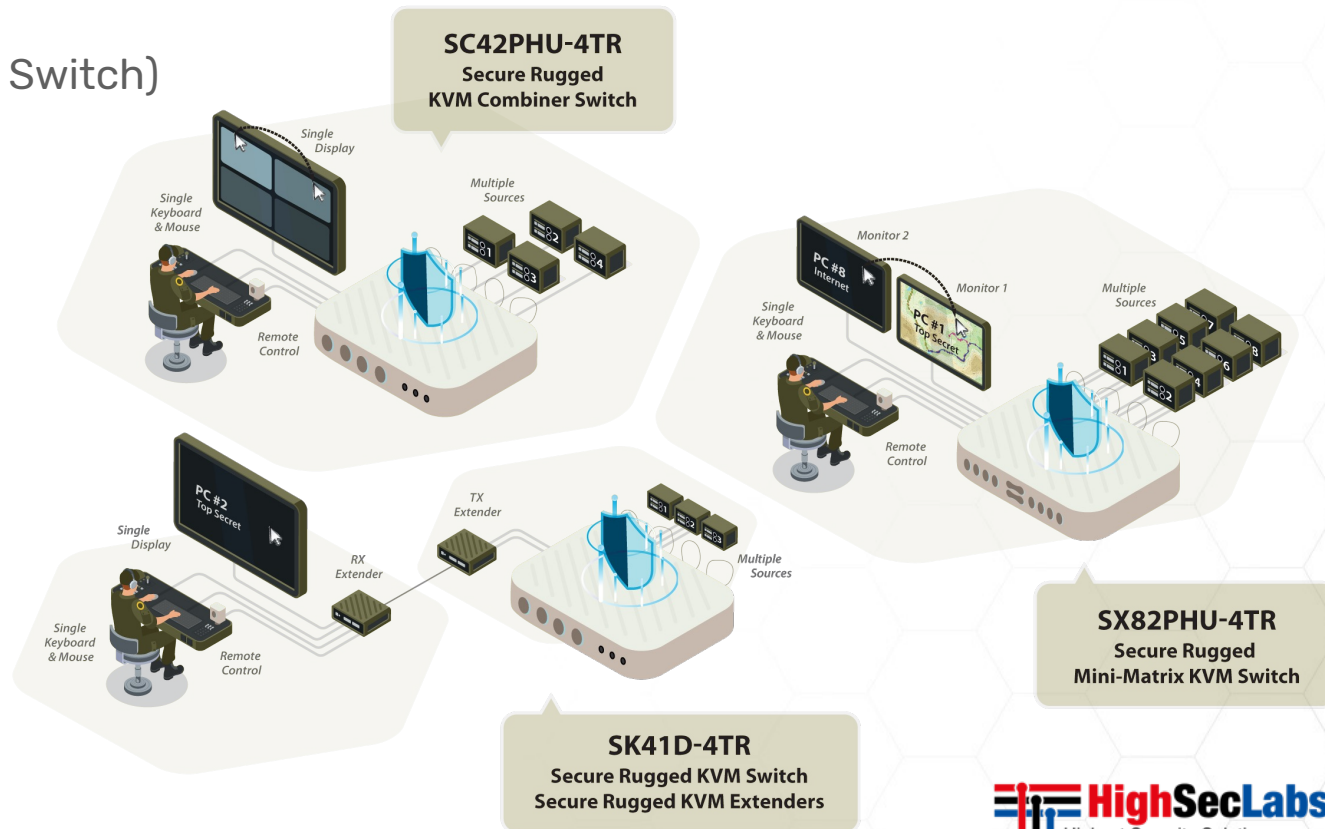
Possible View 1



Possible View 2

SUMMARY

- A complete suite of rugged peripheral sharing solutions including:
 - KVM Switch
 - KVM Matrix Switch
 - KVM Combiner (Multiviewer, Scaler, KVM Switch)
 - Fiber/Copper extension of HID and video signals
- Suitable for command & control and on-vehicle use
- MIL-STD spec for use under all field conditions
- NIAP certified and TEMPEST compliant
- BAA/TAA compliant



Thank You

For more info:



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