SK41D-4TR

1 2 3 4

HID1 HID2 DISPLAY

HSL

RUGGED AND SECURE KEYBOARD, VIDEO, MOUSE SWITCHES
Product Family

HighSecLabs
Highest Security Solutions

SECURE MIL-STD
4/8-PORT HDMI KVM SWITCHES

HSL's rugged DP/HDMI KVM switches act as a force multiplier for military users, ensuring mission integrity in the most challenging environments. By reducing operator cognitive load and accelerating decision-making under pressure, they provide a decisive tactical advantage.

Compliant with both **NIAP PP 4.0** and **MIL-STD-810G**, these switches are engineered for deployment on military vehicles, marine vessels, and airborne platforms.

WX80-4TR
For Matrix KVM

WK80-4TR
For 8-Port KVM

WR40-4TR
For 4-Port KVM

REMOTE
CONTROLS

For easier mounting and better situational awareness, the rugged KVMs are optionally equipped with a remote control that can be mounted on the operator dashboard.

Transmitter & Receiver
Rugged Extender

RUGGED
EXTENDERS

Facilitates installations where operators and hosts are distant from each other. Works over both copper and fiber. Compatible with a remote control for enhanced functionality.

RUGGED SECURE 4/8/16 PORTS
KVM COMBINER SWITCHES SPECIFICATIONS

	MODEL	SC42PHU-4TR	SC82PHU-4TR**	SC162PHU-4TR**
	No. of Sources	4	8	16
MAIN FEATURES	**Console Output Ports**	2 x DP/HDMI, Mouse, KB, CAC reader and optional remote control via a single male D38999/24WD35SN		
	Computer Input Ports	2 x DP/HDMI, HID and CAC interfaces based on a single female D38999/24WD35PN.		
	Channel Switching	• IP 67 compliant green LED illuminated front panel push buttons • NVG and dimming options available • Remote control connected via console port		
	Video Modes Supported	• DisplayPort/HDMI supported up to 4K@30Hz or 3440x1440@60Hz		
PWR	**DC Input**	Nominal Power Input 28VDC (18V-36V)		
	Power Requirements	Max Power Consumption 40W		
PHYC	**Dimensions**	433.8 x 215 x 65.85 mm / 17 x 8.5 x 2.6 in		
CERT	**Security Certification**	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device)	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device)	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device)
	Product Compliance	MIL-STD-461, CE102, CS101, CS114, CS115, CS116, RE102, RE103, RS103, CE101		
RELIAB	**Standards**	MIL-STD-810G, MIL-STD-1275E Compliant		
	MTBF	65,000 hours of operation at 40 degrees		

** Coming Soon.

RUGGED SECURE 4/8 PORTS
KVM AND MINI-MATRIX SWITCHES SPECIFICATIONS

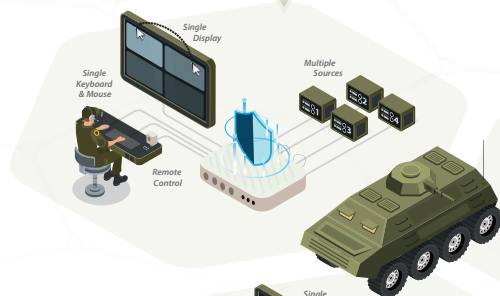|	MODEL	SK41D-4TR	DK82PHU-4TR	SX82PHU-4TR**
	No. of Sources	4	8	8
MAIN FEATURES	**Console Output Ports**	2 x DP/HDMI (SK41D-4TR HDMI only), Mouse, KB, CAC reader (not for SK41D-4TR) and optional remote control via a single male D38999/24WD35SN		
	Computer Input Ports	2 x DP/HDMI (SK41D-4TR HDMI only), HID and CAC interfaces (not for SK41D-4TR) based on a single female D38999/24WD35PN.		
	Channel Switching	• IP 67 compliant green LED illuminated front panel push buttons • NVG and dimming options available • Remote control connected via console port		
	Video Modes Supported	• DisplayPort/HDMI supported up to 4K@30Hz or 3440x1440@60Hz • DVI-D 1920x1200@60Hz (SK41D-4TR), Support for other video formats available.		
PWR	**DC Input**	Nominal Power Input 28VDC (18V-36V)		
	Power Requirements	Max Power Consumption 40W		
PHYC	**Dimensions**	320 x 141 x 50 mm / 12.5 x 5.5 x 1.9 in	448 x 163 x 101 mm / 17.6 x 6.4 x 4 in	448 x 163 x 101 mm / 17.6 x 6.4 x 4 in
CERT	**Security Certification**	Certified for NIAP PP4 for PSD (Peripheral Sharing Device), TEMPEST Level A Compliant *	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device)	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device)
	Product Compliance	MIL-STD-461, CE102, CS101, CS114, CS115, CS116, RE102, RE103, RS103, CE101		
RELIAB	**Standards**	MIL-STD-810G, MIL-STD-1275E Compliant		
	MTBF	65,000 hours of operation at 40 degrees		

* Contact us for further information regarding TEMPEST capabilities. ** Coming Soon.
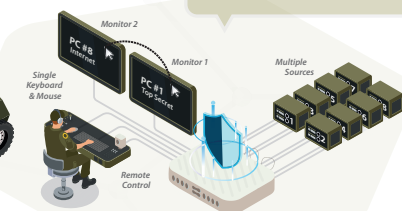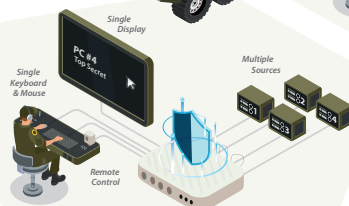
SC42PHU-4TR Front & Rear View

RUGGED
SYSTEM DIAGRAMS

SC42PHU-4TR
SECURE RUGGED
KVM COMBINER SWITCH

Single Display

Single Keyboard & Mouse

Multiple Sources

Remote Control

SX82PHU-4TR
SECURE RUGGED
MINI-MATRIX KVM SWITCH

Monitor 2

Monitor 1

PC #8 Internet

PC #1 Top secret

Single Keyboard & Mouse

Multiple Sources

Remote Control

SK41D-4TR
SECURE RUGGED
KVM SWITCH

Single Display

PC #4 Top Secret

Single Keyboard & Mouse

Multiple Sources

Remote Control

RUGGED KVM
HIGHLIGHTS

- **Rugged Construction**

  The rugged KVM is designed to meet MIL-STD harsh environmental requirements. It features a robust sealed aluminum enclosure, all metallic MIL-STD-38999 connectors, and sealed front panel illuminated push buttons.

NIAP PP4.0 for PSD Compliant - All of HSL's rugged KVM switches are compliant with or certified to NIAP PP version 4.0 for PSD.

- **Rugged KVM Multi-Viewers**

  View and interact with up to 16 hosts and one or two displays. A streaming H.264 output can be used as one of the display outputs. Easily switch between multiple sources and scale images to create custom views that can be saved as presets.

- **HSL's Unique Mini-Matrix Option**

  Allows a single user to control two of the connected hosts simultaneously.

- **Protected Power Input**

  Input power from 12-28VDC that is fully compliant with MIL-STD-1275E. Optional High Radiation Nuclear events protection is available.

- **Easy Mounting**

  All products include side-to-side mounting holes for easy mounting while maintaining the chassis seal.

- **Extensive BIT (Built-In-Test) Functionality**

  Receive status and diagnostics via RS232 regarding the unit's operational readiness. BIT results are reported upon startup, on demand and continuously every 5 minutes.

SK41D-4TR IS BOTH NIAP PP4 FOR PSD CERTIFIED AND MIL-STD COMPLIANT.

SK41D-4TR Rear View

SECURE KVM
RUGGED MODELS

MODEL	SK41D-4TR	SC42PHU-4TR/ SC82PHU-4TR/ SC162PHU-4TR	DK82PHU-4TR	SX82PHU-4TR
MAIN FEATURES				
Description	Secure 4-Ports Rugged KVM Switch	Secure 4/8/16-Ports Rugged KVM Combiner Switch	Secure Dual-Head 8-Ports Rugged KVM Switch	Secure 8-Ports Rugged Mini-Matrix KVM Switch
No. of Sources	4	4/8/16	8	8
Displays	1 x HDMI	2 x DP/HDMI	2 x DP/HDMI	2 x DP/HDMI
DPP Support	No	Yes	Yes	Yes

MADE IN THE USA,
BAA AND TAA COMPLIANT.

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

TAA COMPLIANT — TRADE AGREEMENTS ACT

BAA COMPLIANT

www.highseclabs.com