

KVM COMBINERS





SC162PH-4

COMBINER SWITCHES

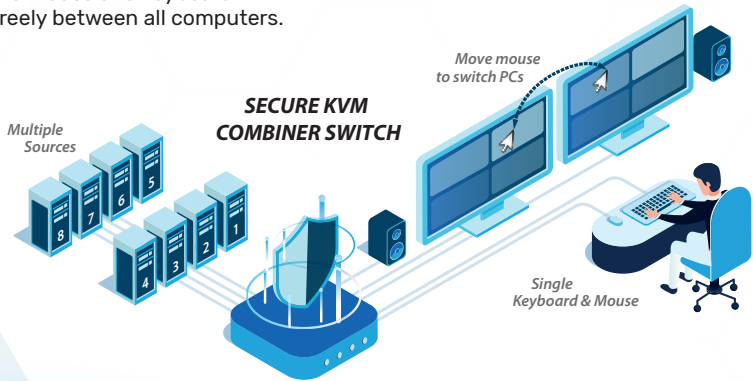
KVM + MULTIVIEWR + SCALER

Interact with multiple computers presented on the same display using a single set of USB, audio, keyboard, video and mouse peripherals.

The Combiner switch increases productivity in challenging multi-computer environments where users are required to view and interact with several computers simultaneously.

HSL'S COMBINER SWITCH ENABLES USERS TO:

- View all computers on one or two displays. The Combiner functions as a KVM switch, a scaler, and a multi-viewer – all in one.
- Switch the mouse and keyboard control freely between all computers.
- Create custom view modes and quickly switch between them for easy interaction with the environment.



ON-SCREEN DISPLAY (OSD) COMBINER SETTINGS

Easily configure what you want to see using the OSD

SECURE 4/8/16-PORTS COMBINER

SPECIFICATIONS



MODEL	SC42PHU-4	SC82PH-4	SC162PH-4	SC44PHU60-4**	
No. of Sources	4	8	16	4	
CONS. PORTS	Displays	2 x HDMI	2 x DP/HDMI	2 x DP/HDMI	4 x DP/HDMI
	Mouse & KB	USB Type A	USB Type A	USB Type A	USB Type A
	Audio Jack	3.5 mm Jack	N/A	N/A	3.5 mm Jack
	fUSB Port	USB Type A	N/A	N/A	USB Type A
COMP. PORTS	Display Type	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
	Max Resolution	UHD 4K up to 3840x2160			4K@60Hz
	Mouse and KB	USB Type B	USB Type B	USB Type B	USB Type B
	Audio Jack	3.5 mm Jack	N/A	N/A	3.5 mm Jack
PHYS	fUSB Port	USB Type B	N/A	N/A	USB Type B
	Power Reqs.	35W Max, 100 to 240V AC, Internal			
	Dimensions	342 x 148 x 42 mm (13.4 x 5.8 x 1.6 in)	439x250x58 mm (17.3x9.8x2.3 in)	439x222x89 mm (17.3x8.7x3.5 in)	342 x 158 x 57 mm (13.4 x 6.2 x 2.2 in)
	Weight	1.61 kg (3.5 lbs)	3.7 kg (8.1 lbs)	7.0 kg (15.4 lbs)	1.95 kg (4.3 lbs)
CERT	Security Cert.	Compliant with NIAP Common Criteria PP4.0 for PSD devices			
	Product Cert.	CE, RCM, FCC class B, VCCI, TUV US, TUV Canada			

** Coming Soon.

4/8 PORTS COMBINER

SPECIFICATIONS



MODEL	SC42PHU-N	SC82PHU-N	SC44PHU60-N**	
No. of Sources	4	8	4	
CONSOLE PORTS	Displays	2 x HDMI	2 x DP / HDMI	4 x HDMI
	Mouse & KB	USB Type A	USB Type A	USB Type A
	Audio Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack
	Microphone Jack	3.5 mm Jack	N/A	3.5 mm Jack
COMPUTER PORTS	USB Ports	4 x USB 3.0 Type A	USB 2.0 Type A	4 x USB 3.0 Type A
	Display Type	1 x DP / HDMI	1 x DP / HDMI	1 x DP / HDMI
	Max Resolution	UHD 4K up to 3840x2160		4K@60Hz
	Mouse and KB	USB Type B	USB Type B	USB Type B
PHYS	Audio Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack
	Microphone Jack	3.5 mm Jack	N/A	3.5 mm Jack
	USB Ports	USB 3.0 Type B	N/A	USB 3.0 Type B
	Power Reqs.	35W Max, 100 to 240V AC, Internal		
Dimensions	342 x 148 x 42 mm (13.4 x 5.8 x 1.6 in)	439 x 250 x 58 mm (17.3 x 9.8 x 2.3 in)	342 x 158 x 57 mm (13.4 x 6.2 x 2.2 in)	
Weight	1.61 kg (3.5 lbs)	3.7 kg (8.1 lbs)	1.95 kg (4.3 lbs)	

** Coming Soon.

RUGGED & SECURE COMBINERS



The rugged Combiner is designed for 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.

4/8/16 PORT RUGGED & SECURE COMBINER 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	<ul style="list-style-type: none"> • 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		
PHYS PWR	DC Input	Nominal Power Input 28VDC (18V-36V)		
	Power Reqs.	Max Power Consumption 40W		
	Dimensions	433.8 x 215 x 65.85 mm / 17 x 8.5 x 2.6 in		
CERT	Security Cert.	Compliant with NIAP PP4 for PSD (Peripheral Sharing Device) NATO TEMPEST Level 1 Compliant *		
	Product Cert.	UL/cUL60950,EN60 950, FCC Class B, CE Mark, EN55022B, VCCI, CE102, CS101, CS114, CS115, CS116, RE102, RE103, CE101		
RELIAB	Standards	MIL-HDBK-216, MIL-STD-810G, MIL-STD-1275E Compliant		
	MTBF	65,000 hours of operation at 40°C		

* Contact HSL for further information regarding TEMPEST capabilities. ** Coming Soon.



	MODEL	TC82PHG-3T	TC162PHG-3T
MAIN FEATURES	Sources	8 x HDMI	16 x HDMI
	Displays	2 x DP/HDMI	2 x DP/HDMI
	Max Resolution	Supporting UHD 4K resolutions up to 3840x2160	
PHYS	Power Reqs.	35W Max, 100 to 240V AC, Internal	35W Max, 100 to 240V AC, 2 x Internal (Redundant)
	Dimensions	442.5 x 299.7 x 43.6 mm	442.5 x 299.7 x 77 mm
	Weight	3.73 kg	7.00 kg

COMBINER HIGHLIGHTS

- NIAP Common Criteria PP4.0 compliant (secure models only)**
 HSL's Combiner switches qualify for the latest NIAP Common Criteria Protection Profile version 4.0 (PP4.0) certification for Peripheral Sharing Device (PSD) devices.
- View and control multiple computers simultaneously**
 With a single Combiner, view and control up to 16 computers at the same time.
- Smoothly switch between computers (Virtual Display Technology)**
 Automatically switch control from one computer to another by dragging the mouse cursor over the computer's display border. The peripherals then switch to the next computer - without the need to press any buttons.
- View applications in ultra-high definition (UHD) 4K video quality**
 Never compromise on video quality. Run graphic-intensive, ultra-high definition applications on all single and dual monitor Combiner models.
- Native touch-screen support**
 Interact with all the computers connected to the Combiner, using touch-screen gestures. No need to install drivers or software.
- Flexible screen layout**
 Resize source scaling and aspect ratio, to create tile, scale, and custom display layouts. Supports screen-duplication and extended screen-view modes.

- Dual DisplayPort and HDMI connector**

Connect either DisplayPort or HDMI sources into the same port, with the new dual-source video connector. Eliminates the need for adapters and converters.



Enhance the user's experience by eliminating multiple peripheral sets.

- State-of-the-art conversion scaler**

Rapidly convert any input and output resolution (up to 4K) to optimal display quality, on a 4K screen, using the built-in scaler.

- Extremely low latency viewing**

View the input channel with extra low latency - below 10ms - using the direct mode feature.

- Freeze channel layer**

For a more dynamic and flexible presentation, it is possible to freeze a channel layer and switch the mouse through an active channel or channels.

- Copy & Paste (N/A in Secure)**

Transfer text and files between all the computers connected to the Combiner, through the Combiner (no network connection is needed between the computers). Use standard copy-and-paste keyboard key combinations (Ctrl+c/Ctrl+v) or mouse-context menu commands.



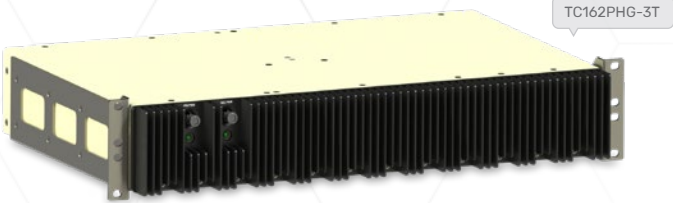
SC42PHU-4

HSL COMBINER

PRODUCT FAMILY MODELS

MODEL	SC42PHU-4/ SC44PHU60-4	SC82PH-4/ SC162PH-4	SC42PHU-4TR/ SC82PHU-4TR/ SC162PHU-4TR	SC42PHU-N/ SC44PHU60-N/ SC82PHU-N/	TC82PHG-3T/ TC162PHG-3T
MAIN FEATURES					
Desc.	Secure 4-Ports KVM Combiner Switch	Secure 8/16-Ports KVM Combiner Switch	Secure 4/8/16-Ports Rugged KVM Combiner Switch	Commercial 4/8-Ports KVM Combiner Switch	Secure 8/16-Ports KVM Combiner Switch
Sources	4 DP/HDMI	8/16 DP/HDMI	4/8/16 HDMI	4/8 DP/HDMI	8/16 HDMI
Displays	2 x HDMI/ 4 x DP/HDMI	2 x DP/HDMI	2 x HDMI	2 x HDMI/ 4 x DP/HDMI/ 2 x DP/HDMI/	2 x DP/HDMI
DPP Support	Yes	No	Yes	USB 3.0/ USB 2.0	No

HSL COMBINERS ARE TAA AND BAA COMPLIANT AND ARE BUILT IN HSL'S FACILITY IN HUNTSVILLE, AL



COMING SOON
4K 60HZ VIDEO QUALITY

SC44PHU60-N



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