

COMBINER SWITCHES

KVM + MULTIVIEWER + SCALER

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

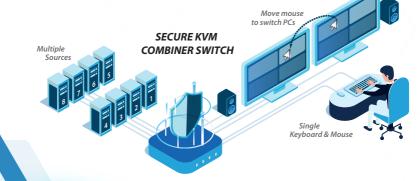
The Combiner switch increases productivity in challenging multi-computer environments where users are required to view and interact with several computers simultaneously.

SC162PH-4

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 multiviewer – 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
w	Display Type	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
R.	Max Resolution	UHD 4K up to 3840x2160			4K@60Hz
COMP. PORTS	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
	fUSB Port	USB Type B	N/A	N/A	USB Type B
Power Reqs. 35W Max, 100 to 240V AC, Internal					
PHYS	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 F	SD devices
2	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
LE 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
CONSOLE	Microphone Jack	3.5 mm Jack	N/A	3.5 mm Jack
ខ	USB Ports	4 x USB 3.0 Type A	USB 2.0 Type A	4 x USB 3.0 Type A
PORTS	Display Type	1x DP / HDMI	1x DP / HDMI	1x DP / HDMI
	Max Resolution	UHD 4K up to 3840x2160		4K@60Hz
	Mouse and KB	USB Type B	USB Type B	USB Type B
COMPUTER	Audio Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack
돌	Microphone Jack	3.5 mm Jack	N/A	3.5 mm Jack
ō	USB Ports	USB 3.0 Type B	N/A	USB 3.0 Type B
	Power Reqs.	35W Max, 100 to 240V AC, Internal		
PHYS	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)

RUGGED & SECURE

COMBINERS



DESIGNED TO TEMPEST Level A

COMPLIANCE

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	
rures	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.			
MAIN FEATURES	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 Reqs.	Max Power Consumption 40W			
PHYS	Dimensions	433.8 x 215 x 65.85 ı	3.8 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 A Compliant *			
핑	Product Cert.	MIL-STD-461, CE102, CS101, CS114, CS115, CS116, RE102, RE103, CE101			
AB	Standards	MIL-HDBK-216, MIL-S	STD-810G, MIL-STD-12	75E Compliant	
RELIAB	MTBF	65,000 hours of operation at 40°C			

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

	MODEL	TC82PHG-3T	TC162PHG-3T	CERTIFIED EAL 4+
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 Interna (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	

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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
- Native touch-screen support
 Interact with all the computers
 connected to the Combiner, using
 touch-screen gestures. No need to
 install drivers or software.
- Resize source scaling and aspect ratio, to create tile, scale, and custom display layouts. Supports screen duplication and extended

- 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 eliminat
- 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.
 - 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.
- 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 FEAT	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

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SC44PHU60-N

NEW RELEASE

QUAD-SCREEN COMBINER - 4K 60HZ VIDEO QUALITY

www.highseclabs.com

