

# Vertiv™ Cybex™ Secure DPH Switch



Superior Security and Control at the Desktop

Designed for Common Criteria Protection Profile for Peripheral Sharing Device v.4.0 and EAL4+

## Overview

Vertiv™ Cybex™ secure DPH switches are field-proven, secure KVM switching solutions with special support for government agencies and security conscientious organizations.

### Features

- Designed for Common Criteria Protection Profile for Peripheral Sharing Device (PSD) v.4.0
- Universal video connectors - Supports either HDMI or DP on the same physical video input and output ports (DVI-D supported with HDMI-to-DVI-D cable)
- Unidirectional data flow of keyboard, mouse, video, and audio
- Isolated switch ports provide discrete processing paths to each computer
- Native video supports up to UHD 4K at 60 Hz
- Cursor Navigation Switching (CNS) seamlessly transitions keyboard and mouse control between computers when pressing the left CTRL key and moving the cursor across screen borders
- Touch screen support
- Smart-card (CAC) or biometric readers for authentication on any attached computer\*
- Eliminate the need for multiple hardware resources, such as monitors, keyboards, mice, and cables
- Ease of setup and use
- Button LED colors can be customized for enhanced channel identification
- Always-on active anti-tampering system, and heavy-duty tamper-resistant enclosure with holographic tamper evident seals.

## How It Works

The Vertiv™ Cybex™ Secure Desktop KVM is ideal for environments where monitoring and managing of multiple computers, covering various degrees of secure data is required. Through Cursor Navigation Switching (CNS), users have the flexibility to manage and monitor their data by simply pressing the left CTRL key and moving their mouse across window borders.

## Security

Designed for the latest Protection Profile for Peripheral Sharing Devices version 4.0, users are receiving the most up to date technology in a secure KVM.

The Cybex Secure Desktop KVM switch meets or exceeds these requirements with the following capabilities:

- Unidirectional Optical Data Diodes – Data can only flow in one direction
- Protected Video Display Emulators – Eliminates potential data leakage from display to computer
- Dedicated Peripheral Port (DPP) – Secure connection to external USB authentication devices\*
- Active Intrusion Detection and Tamper-Evident Labels – Ensures hardware has not been compromised

## Flexibility

The Vertiv™ Cybex™ Desktop KVM switch provides users flexibility when it comes to video connection and switch control.

- Universal Video Port – Supports DP, HDMI, or DVI-D connections
- Freeze DPP Channel – Independently locks DPP channel to a specific computer\*
- Freeze Audio Channel – Independently locks the audio channel to a computer



\* Select models



## Benefits

- Universal video connectors to support DP, HDMI, and DVI-D
- Block unauthorized USB devices while allowing secure switching of smart card and biometric devices between computers
- Active intrusion detection and tamper-evident holographic labels prevent hardware from being compromised
- Vertiv patented keyboard lock status indication
- Eliminates the need for multiple peripheral keyboard, mouse, and display devices
- Alleviate workspace clutter
- Prevents information leaks, transfer or crosstalk between adjacent ports and filters ultrasonic audio frequencies via unidirectional optical data diodes (UODD)

## Specifications

	SC820DPH	SC840DPH	SC845DPH	SC920DPH	SC940DPH	SC945DPH	SC985DPH
<b>Computers</b>							
Ports	2	4	4	2	4	4	8
DP/HDMI Univ Video (1)	1	1	1	2	2	2	2
Max resolution	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz	UHD 4K (3840x2160) @ 60Hz
Keyboard and Mouse	1 x USB 2.0 Type B	1 x USB 2.0 Type B	1 x USB 2.0 Type B	1 x USB 2.0 Type B	1 x USB 2.0 Type B	1 x USB 2.0 Type B	1 x USB 2.0 Type B
DPP – USB 2.0 Type B	0	0	1	0	0	1	1
Analog Audio	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker
<b>Console</b>							
DP/HDMI Univ Video (1)	1	1	1	2	2	2	2
Keyboard and mouse	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A
DPP – USB 2.0 Type A	0	0	1	0	0	1	1
Analog Audio	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker
<b>Physical</b>							
Dimensions (WxDxH)	7.0 x 2.4 x 1.7 in 178 x 61 x 43 mm	13.7 x 5.0 x 1.7 in 348 x 127 x 43 mm	7.0 x 2.4 x 2.2 in 178 x 61 x 56 mm	13.7 x 5.0 x 2.2 in 348 x 127 x 56 mm	17.3 x 7.3 x 2.2 in 439 x 185 x 56 mm		
Weight	1.0 lbs / 0.5 kg	3.0 lbs / 1.5 kg	1.5 lbs / 0.7 kg	3.7 lbs / 1.9 kg	6.8 lbs / 3.1 kg		
Mounting Options		Desk Mount - DMK-09		Desk Mount - DMK-09		Rack Mount Included	
<b>Environmental Conditions</b>							
Operating Temp	0 to 40C / 32 to 104 F						
Storage Temp	-20 to 60C / -4 to 140 F						
Humidity	0 to 80% RH, non-condensing						
<b>Electrical Power</b>							
AC Input Voltage	100 – 240V AC	100 – 240V AC	100 – 240V AC	100 – 240V AC	100 – 240V AC	100 – 240V AC	100 – 240V AC
Power Supplies	1 x external, 2.5A Max						1 x internal, 4.5W Max
Power Connector	Wall-mounted power supply with user-interchangeable localized plug blades.						6 foot, IEC320 C13 to C14 cord (2)
<b>Regulatory</b>							
Security Evaluation	Designed for Common Criteria Protection Profile for Peripheral Sharing Device v. 4.0 and Evaluation Assurance Level (EAL) 4+						
Regulatory Certifications	FCC class A, CE, TUV US, TUV Canada, RCM, VCCI						
Standard Product Warranty	3 Years; additional warranty terms available						
Design & Assembly	Huntsville, AL USA						

(1) DVI-D computer or console display may be connected using an HDMI-to-DVI-D cable (see accessories below)

(2) Includes user interchangeable C14 to localized socket plugs

## Computer Cables

Computer Video	Video Type	Length (ft / m)	Single Head		Dual Head	
			Audio/USB	Audio/USB/DPP	Audio/USB	Audio/USB/DPP
DP	DP-to-DP	6 / 1.8	CBL0102	CBL0104	CBL0106	CBL0108
		10 / 3.0	CBL0103	CBL0105	CBL0107	CBL0109
Mini DP	mDP-to-DP	10 / 3.0		CBL0194		CBL0195
HDMI	HDMI-to-HDMI	6 / 1.8	CBL0110	CBL0112	CBL0114	CBL0116
		10 / 3.0	CBL0111	CBL0113	CBL0115	CBL0117
DVI-D	HDMI-to-DVI-D	6 / 1.8	CBL0162	CBL0164	CBL0166	CBL0168
		10 / 3.0	CBL0163	CBL0165	CBL0167	CBL0169

## Console Video Only Cables (6ft / 1.8m)

Display Video	Cable Type	Display Video
DP	DP-to-DP	CBL0188
HDMI	HDMI-to-HDMI	CBL0189
DVI-D	HDMI-to-DVI-D (DVI-D display to HDMI KVM)	CBL0191

## Accessories

Part Number	Description	Usage
USBCKVMSHNP	10ft USB-C (PC) to Single Display DP (KVM) adapter cable +ETH +PWR	Connect USB-C single-head computer to DP/USB KVM port, provides Ethernet and USB-C PD power connections
USBCKVMDHNP	10ft USB-C (PC) to Dual Display DP (KVM) adapter cable +ETH +PWR	Connect USB-C dual-head computer to DP/USB KVM port, provides Ethernet and USB-C PD power connections
AFP0004	4-Port Remote Active Front Panel	Remotely select computer ports on 2 and 4-port KVM switches
AFP0008	8-Port Remote Active Front Panel	Remotely select computer ports on SC985DPH switch