

Vertiv™ Cybex™ Secure DPHC Switch



Advanced Secure KVM for USB-C and traditional KVM computers

Designed for Common Criteria Protection Profile for Peripheral Sharing Device v4.0 and EAL4+

Overview

Vertiv™ Cybex™ secure DPHC 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) v4.0
- 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)
- Seamlessly connect one USB-C and three traditional KVM computers
- 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
- 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 the USB-C input port, users now have the flexibility of connecting a USB-C computer using only a USB-C cable.

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 or HDMI video connections natively (no adapters)
- 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
- USB-C input port requires using only a USB-C cable - no docking station or KVM cables required
- 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)

Technical Specifications

	SC840DPHC	SC845DPHC	SC940DPHC	SC945DPHC
Computers				
Ports	4	4	4	4
Video Type (1)	1 - USB-C; 3 - 1 x DP/ HDMI Univ	1 - USB-C; 3 - 1 x DP/ HDMI Univ	1 - USB-C; 3 - 2 x DP/ HDMI Univ	1 - USB-C; 3 - 2 x DP/ HDMI Univ
Max resolution	UHD 4K (3840x2160) @60Hz (2)			
Keyboard and Mouse	1 - Included in USB-C; 3 - 1 x USB 2.0 Type B			
DPP	1 - Included in USB-C; 3 - 1 x USB 2.0 Type B		1 - Included in USB-C; 3 - 1 x USB 2.0 Type B	
Analog Audio	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker
Console				
DP/HDMI Univ Video (1)	1 x DP/HDMI Univ	1 x DP/HDMI Univ	2 x DP/HDMI Univ	2 x DP/HDMI Univ
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
DPP	1 x USB 2.0 Type A		1 x USB 2.0 Type A	
Analog Audio	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker	1 x 3.5mm Speaker
Physical				
Dimensions (WxDxH)	7.0 x 2.4 x 1.7 in / 178 x 61 x 43 mm		7.0 x 2.4 x 2.2 in / 178 x 61 x 56 mm	
Weight	3.0 lbs / 1.5 kg		3.7 lbs / 1.9 kg	
Mounting Options	Desk Mount - DMK-09			
Environmental Conditions				
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			
Electrical Power				
AC Input Voltage	100 – 240V AC			
Power Supplies	1 x external, 2.5A Max			
Power Connector	Wall-mounted power supply with user-interchangeable localized plug blades.			
Regulatory				
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) A DVI-D computer or console display may be connected using an HDMI-to-DVI-D cable (see accessories below)
 (2) SC940DPHC and SC945DPHC USB-C video is limited to UHD 4K (3840x2160) @30Hz

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
USBCUSBCNP	10ft USB-C (PC) to USB-C (KVM) adapter cable +ETH +PWR	Connect USB-C computer to DPHC USB-C port, provides Ethernet and USB-C PD power connections
AFPO004	4-Port Remote Active Front Panel	Remotely select computer ports on 4-port KVM switch



SC945DPHC