Vertiv™ Cybex™ Secure Desktop Matrix

Unique Switching Solutions that Simultaneously Display Two Active Computers

Overview

The Cybex Secure Desktop Matrix allows users to securely interact with multiple computers and observe two active computers simultaneously.

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)
- Secure KVM switching allows for instantaneous interaction with two computers from different security classifications
- 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
- 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
- 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 LEDs 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 Matrix 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 to meet 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 Secure Desktop Matrix switch meets or exceeds these requirements with the following capabilities:

- Unidirectional Optical Data Diodes (UODD)- 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
- Tamper-Evident Labels- Ensures hardware has not been compromised

Flexibility

The Cybex Desktop Matrix 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

Vertiv™ Cybex™ Secure Desktop Matrix

Benefits

- View information on two isolated computers simultaneously.
- Block unauthorized USB devices while allowing secure switching of smart card and biometric devices between computers
- Universal video connectors to support DP, HDMI, and DVI-D
- Active intrusion detection and tamper-evident holographic labels prevent hardware from being compromised
- Enhances ability to multitask by keeping two critical systems in the user's field of vision
- Vertiv patented keyboard lock status indication

Technical Specifications

Switch Models	SCM145DPH	SCM185DPH
Computers		
Ports	4	8
Video Type	1 x DP / HDMI universal port	
Max resolution	UHD 4K (3840x2160) @ 60Hz	
Keyboard and Mouse	1 x USB 2.0 Type B	
DPP	1 x USB 2.0 Type B	
Analog Audio	1 x 3.5mm Speaker	
Console		
Video Type	2 x DP/HDMI Universal port	
Keyboard and mouse	2 x USB 2.0 Type A	
DPP	1 x USB 2.0 Type A	
Analog Audio	1 x 3.5mm Speaker	
Physical		
Dimensions (WxDxH)	13.7 x 5.0 x 1.7 in 348 x 127 x 43 mm	17.3 x 7.3 x 1.7 in 439 x 185 x 43 mm
Weight	3.0 lbs / 1.5 Kg	5.4 lbs / 2.5 Kg
Mounting Options	Desk Mount - DMK-09	Rack Mount Included
Environmental Conditions		
Operating Temp	0 to 40°°°C / 32 to 104°F	
Storage Temp	-20 to 60°°C / -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	1 x internal, 45W Max
Power Connector	Wall-mounted power supply with user-inter-changeable localized plug blades.	IEC320 C14 to IEC320 C13 power cord (6 foot), with user interchangeable C14 to localized socket plugs
Regulatory		
Security Accreditation	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	

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

Computer Cables

Computer Video	Cable Type	Length (ft / m)	Single Head Audio/USB	Single Head Audio/USB/DPP	Dual Head Audio/USB	Dual Head 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	NA	CBL0194	NA	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 Matrix KVM
USBCKVMDHNP	10ft USB-C (PC) to Dual Display DP (KVM) adapter cable +ETH +PWR	Connect USB-C dual-head computer to Matrix KVM
AFP0004	4-Port Remote Active Front Panel	Use with AFPSPLITTER to remotely select primary and secondary computer ports on SCM145DPH switch
AFP0008	8-Port Remote Active Front Panel	Use with AFPSPLITTER to remotely select primary and secondary computer ports on SCM185DPH switch
AFPSPLITTER	AFP cable Splitter adapter for Desktop Matrix	Connect 2 AFP Remote Switch Panels to a Desktop Matrix RCU port for independent remote control of primary and secondary displays

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