

Cybex™ SC800 / 900 Secure Desktop KVM Switches



Superior Security and Control at the Desktop
NIAP Common Criteria Protection Profile for Peripheral Sharing Switch v.3.0 Certified

Overview

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

The Cybex SC800 / 900 secure desktop series is compliant with the stringent specifications of the U.S. government NIAP Common Criteria Protection Profile for Peripheral Sharing Switch version 3.0.

Benefits

- Meets government and military requirement for NIAP Common Criteria Protection Profile for Peripheral Sharing Switch v.3.0 certification
- Provides flexible options for connected display technologies
- Eliminates the need for multiple peripheral devices
- Alleviates workspace clutter
- Filters unwanted USB devices
- Improves device interaction with multiple computers at a single workstation
- Shares peripherals across different domains securely
- Prevents information leaks, transfer or crosstalk between adjacent ports and filters ultrasonic audio frequencies via unidirectional optical data diodes (UODD)

How It Works

This switching system allows users to switch safely and securely between computers operating at different classification levels from a single set of peripherals, providing continuous access to critical data. With multiple security features, the secure design prevents the transfer of data or information between the connected computers, ensuring data security is not compromised.

Solving Problems

Every day, news headlines report another cyber security breach. Military and government agencies, financial institutions, national health organizations, large media companies and multi-national retail chains — none are immune to major security events. While the importance of security at the network level has long been recognized, security management at the desktop is sometimes overlooked. Each desktop computer or device offers a potential point of entry into your network. Laptops, PCs, memory storage devices, smartphones, tablets — all of these can be the catalyst for malicious attack or intellectual property theft. Whether you are running an organization with limited IT resources or managing a department within a large organization, protecting the desktop environment is critical to reducing risk and abiding by privacy and security regulations

Adding Value

The Cybex secure desktop KVM switch by Vertiv improves security at the desktop environment using premium security technology that eliminates the need for additional connected devices. Fewer connected devices not only provides improved security but it also saves costs and improves productivity.

Features

- NIAP Common Criteria Protection Profile for Peripheral Sharing Switch v.3.0 certified
- Zero delay switching
- Two, four and eight secure, isolated computer channels
- Single and dual head DVI-I, DisplayPort and HDMI connections providing resolutions up to 4k UHD @ 30 Hz
- Advanced isolation between computers and shared peripherals
- Isolated ports on the switch provide discrete processing paths to each system
- USB peripheral isolation via unidirectional optical data diodes enabling data flow from devices to host only
- Optional Dedicated Peripheral Port (DPP) for secure connection to USB peripherals including two-factor authentication devices such as CAC smart card readers, fingerprint readers and facial recognition
- Always-on active anti-tampering system, and holographic tamper evident seals



Technical Specifications

Secure desktop KVM switch models

Video Type		Maximum Resolution	Computers	Cybox™ SC800 Single-head		Cybox SC900 Dual-head	
Console	Computer			Audio/USB	Audio/USB/DPP	Audio/USB	Audio/USB/DPP
DisplayPort 1.2	DisplayPort 1.2	4K UHD 3840 x 2160 @ 30 Hz	2	SC820DP		SC920DP	
			4	SC840DP	SC845DP	SC940DP	SC945DP
			8		SC885DP		SC985DP
HDMI 1.4	DisplayPort 1.2	4K UHD 3840 x 2160 @ 30 Hz	2	SC820D		SC920D	
			4	SC840D	SC845D	SC940D	SC945D
HDMI 1.4	HDMI 1.4	4K UHD 3840 x 2160 @ 30 Hz	2	SC820H		SC920H	
			4	SC840H	SC845H	SC940H	SC945H
Dual-Link DVI-I	Dual-Link DVI-I	2560 x 1600 @ 60 Hz or 4K UHD 3840 x 2160 @ 30 Hz*	2	SC820		SC920	
			4	SC840	SC845	SC940	SC945
			8		SC885		SC985
Dual-Link DVI-I & DisplayPort 1.2	Dual-Link DVI-I & DisplayPort 1.2	2560 x 1600 @ 60 Hz or 4K UHD 3840 x 2160 @ 30 Hz*	2			SC920XP	
			4				SC945XP
Dual-Link DVI-I & HDMI 1.4	Dual-Link DVI-I & DisplayPort 1.2	2560 x 1600 @ 60 Hz or 4K UHD 3840 x 2160 @ 30 Hz*	2			SC920XD	
			4				SC945XD

* Using DVI-to-HDMI cable

Dimensions & Weights

Computers	Width (in / mm)	Depth (in / mm)	Cybox SC800 Single-Head		Cybox SC900 Dual-Head	
			Height (in / mm)	Weight (lb / kg)	Height (in / mm)	Weight (lb / kg)
2	7.0 / 178	2.4 / 61	1.7 / 43	1.0 / 0.5	2.2 / 56	1.5 / 0.7
4	13.7 / 348	5.0 / 127	1.7 / 43	3.0 / 1.5	2.2 / 56	3.7 / 1.9
8	17.3 / 439	7.3 / 185	1.7 / 43	5.4 / 2.5	2.2 / 56	6.8 / 3.1

Secure Switch Cables

Series	Cable Connector Types	Length (ft / m)	SC800 Single-Head		SC900 Dual-Head	
			Audio/USB	Audio/USB/DPP	Audio/USB	Audio/USB/DPP
SCxxxD & SCxxxDP	DP-to-DP	6 / 1.8	CBL0102	CBL0104	CBL0106	CBL0108
		10 / 3.0	CBL0103	CBL0105	CBL0107	CBL0109
SCxxxH	HDMI-to-HDMI	6 / 1.8	CBL0110	CBL0112	CBL0114	CBL0116
		10 / 3.0	CBL0111	CBL0113	CBL0115	CBL0117
SCxxxH	HDMI-to-DVI-D (DVI-D Computer)	6 / 1.8	CBL0162	CBL0164	CBL0166	CBL0168
		10 / 3.0	CBL0163	CBL0165	CBL0167	CBL0169
SCxxx	DVI-D to DVI-D	6 / 1.8	CBL0150	CBL0146	CBL0152	CBL0148
		10 / 3.0	CBL0151	CBL0147	CBL0153	CBL0149
SCxxxXD & SCxxxXP	DVI-D to DVI-D & DP-to-DP	6 / 1.8			CBL0178	CBL0179

Peripherals

Computers	Console Keyboard & Mouse	Console Audio	Computer Audio
2	USB Type-A		
4	USB Type-A & PS/2	3.5mm Stereo	3.5mm Stereo
8	USB Type-A & PS/2		

Environmental Conditions

Series	Operating Temperature	Humidity	Storage Temperature
All Series	32° to 104°F 0° to 40°C	0-80% RH, non-condensing	-4° to 140°F -20° to 60°C

Electrical Power

Computers	Power	AC Input Voltage
2	12V DC 1.5A, External	
4	35W Max, Internal	100 to 240V AC 50/60 Hz
8	45W Max, Internal	

Mounting Options

Computers	Part Number	Description
4	DMK-09	Desk Mount Kit, supports single and dual head models
8	RMK-102	Rack Mount Kit, supports single and dual head models

Security Certification

NIAP Common Criteria Protection Profile for Peripheral Sharing Switch v.3.0 Evaluation Assurance Level (EAL) 4+(SCxxx, SCxxxD, SCxxxH, SCxxxXD only)

Regulatory Certifications

FCC class B, CE, TUV US, TUV Canada, RCM, VCCI

Standard Product Warranty

3 years; additional warranty terms available

Design & Assembly

Huntsville, AL USA