CYBEX™ SCM100 SECURE DESKTOP MATRIX SWITCHES

Unique Switching Solutions that Simultaneously Display Two Active Computers

VERTIV

OVERVIEW

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

Benefits

- Peace of mind knowing it is NIAP Common Criteria Protection Profile (PP) for Peripheral Sharing Switch (PSS) v.3.0 accredited.

- Provides flexible, secure options for connected display technologies.

- Display classified and unclassified information without compromising security.

- Prevents information leaks, transfer or crosstalk between adjacent ports and filters ultrasonic audio frequencies via unidirectional optical data diodes (UODD).

- Maintain situational awareness across multiple security domains.

- Filters unwanted USB devices.

How It Works

Vertiv™ Cybex™ Secure Desktop Matrix switches are designed to connect up to eight computers allowing users to simultaneously view two active computers and seamlessly switch between sources by moving the mouse across display borders called Cursor Navigation Switching (CNS). Using a single set of keyboard, mouse and audio peripherals, users can securely switch between computers on different classification levels.

Solving Problems

Government agencies, healthcare, pharmaceutical and other industries where data isolation is paramount, require secure access to information that have differing levels of classification.

Meetings that are conducted in these organizations may require sharing classified information on one monitor and information from a different classification level on a separate screen. With the Cybex Secure Desktop Matrix, users can safely switch between these two connected computers ensuring data security is not compromised.

Data center control rooms frequently require users to integrate information from several isolated sources on multiple displays in real-time. With the Cybex Secure Desktop Matrix, users can interact with one computer while monitoring the activity of a second computer.

Adding Value

The Cybex Secure Desktop Matrix delivers strong, effective security management designed to prevent unauthorized access via peripheral devices while delivering transparent security that does not impede user productivity.
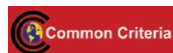
FEATURES

- NIAP Protection Profile for Peripheral Sharing Switch Devices v. 3.0 accredited.

- Zero Delay Switching.

- Ability to view two active computers simultaneously.

- Cursor Navigation Switching (CNS) giving the user control to switch from one isolated computer to another via the mouse.

- Dedicated Peripheral Port (DPP) for secure connection to USB peripherals including two-factor authentication devices such as CAC smart card readers, fingerprint readers, facial recognition, etc.

- Isolated ports on the switch provide discrete processing paths to each computer.

- USB peripheral isolation via unidirectional optical data diodes controlling data flow from devices to host only.

- Unidirectional audio data diode that allows sound to travel in one direction from the PC to the speaker and prevents eavesdropping.

- DVI-I, DisplayPort and HDMI models providing resolutions up to 4k UHD @ 30 Hz.

- Always-on active anti-tampering system, and heavy-duty tamper-resistant enclosure with holographic tamper evident seals.

Technical Specifications

SECURE DESKTOP MATRIX SWITCHES				
Video Type		Maximum Resolution	Computers	
Console	Computer		4	8
DisplayPort 1.2	DisplayPort 1.2	4K UHD 3840 x 2160 @ 30 Hz	SCM145DP	SCM185DP
HDMI 1.4	HDMI 1.4	4K UHD 3840 x 2160 @ 30 Hz	SCM145H	
Dual-Link DVI-I	Dual-Link DVI-I	2560 x 1600 @ 60 Hz	SCM145	SCM185
HDMI 1.4*	HDMI 1.4*	4K UHD 3840 x 2160 @ 30 Hz*		

Using HDMI-to-DVI-D cable

DIMENSIONS & WEIGHTS				
Computers	Width (in / mm)	Depth (in / mm)	Height (in / mm)	Weight (lb / kg)
4	13.7 / 348	5.0 / 127	1.7 / 43	3.0 / 1.5
8	17.3 / 439	7.3 / 185	1.7 / 43	5.4 / 2.5

SECURE DESKTOP MATRIX SWITCH CABLES			
Series	Video Type	6ft / 1.8m	10ft / 3.0m
SCMxxxDP	DisplayPort	CBL0104	CBL0105
SCMxxxH	HDMI	CBL0112	CBL0113
SCMxxx	DVI-I	CBL0146	CBL0147
SCMxxx	HDMI-to-DVI-D	CBL0164	CBL0165

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

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
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
8	RMK-102	Rack Mount Kit

Security Accreditation	NIAP Protection Profile for Peripheral Sharing Switch Devices v. 3.0 Common Criteria Protection Profile for Peripheral Sharing Switch v.3.0
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

AV-49514 (R11/18)