rocstor 10A326-B1 SolidKVM SK05 DisplayPort 1.4 and USB 3.0 2×1 KVM Switch User Manual

Contents

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Important Safety Notice

WARNING: Please follow these safety instructions. Failure to do so may result damages or injury.
It is normal that the SolidKVM SK05 unit becomes very warm during use.

Please note that:
Continuous contact with warm surfaces for extended time may cause discomfort or injury. In order to reduce the possibility of overheating or heat-related injuries, always allow needed ventilation around the SolidKVM SK05 unit and use care when handling it. Avoid instances where your skin is in extended contact with the hub when plugged into the host computer. It is not recommended to sleep with the adapter when plugged into a host computer. Avoid placing the hub adapter under a pillow, blanket, or your body when connected to a host computer. If you have a medical condition that affects your ability to detect heat against the body, extra care should be used. Never use the adapter in locations with water, such as a sink, bathtub, or shower stall. Never connect or disconnect the adapter with wet hands.

Introduction
Rocstor introduces a high-performance DP-KVM switcher designed to route high-definition video (in multiple resolutions up to 4kx2k@60Hz) and audio from various sources to display units. This DP-KVM switcher offers both key-press switching and intelligent functionality, along with hot-pluggable capabilities.

Package Contents

Before utilizing this unit, kindly inspect the packaging to ensure the following items are included:

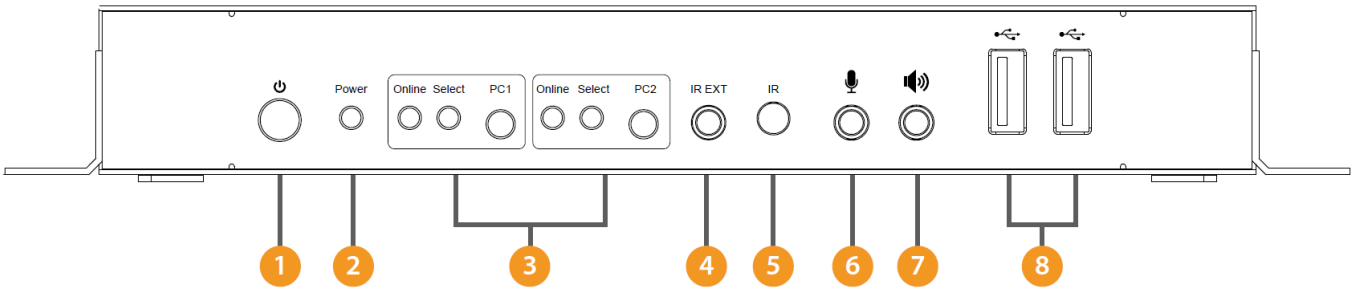
- Main Unit x1
- 5V/3A Power Adapter x1
- IR Remote Control x1
- IR Extender x1
- USB 3.0-B Male to USB 3.0-A Male Cable x2
- User Manual x1
- Ear Hanger Bracket x2 (Optional)

Features

- Supports resolution up to 4Kx2K@60Hz
- Supports RGB 4:4:4/ YCbCr 4:4:4/ YCbCr 4:2:2/ YCbCr 4:2:0
- Supports KVM function
- Supports a display(Either DP or HDMI) and a set of Keyboard and Mouse to control two PCs with DP ports
- **DisplayPort:**
  Supports 8.1Gbps per channel (32.4Gbps all channels) bandwidth
  Supports 16bit per channel (48bit all channels) deep color
  Supports HDR
  Note: Theoretically, DP resolution can be up to 8K, it is to be verified on DP1.4 Graphic cards and 8K DP display
- **HDMI:**
  Supports 6Gbps per channel (18Gbps all channels) bandwidth
  Supports 12bit per channel (36bit all channels) deep color
  Supports HDCP 2.2/1.4
  Supports HDR
- Supports infrared remote control function
- Supports for switching LED indications
- Supports Windows 2000/XP/Vista/Win7/Win8/Win10/Linux/Apple Mac OS

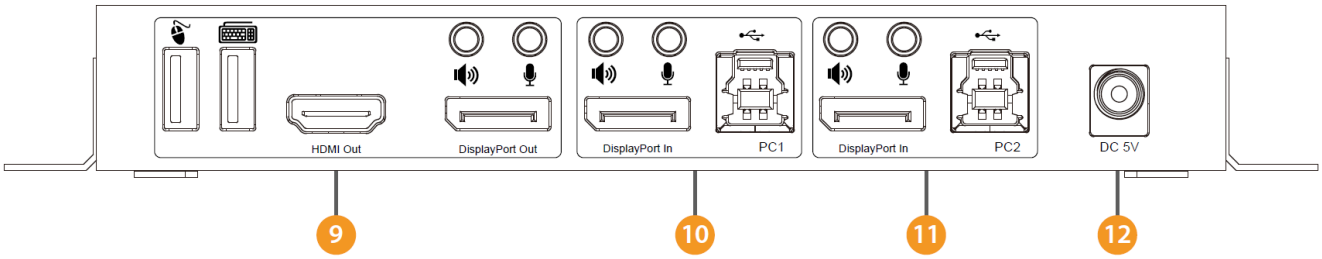
Panel Description

Front Panel

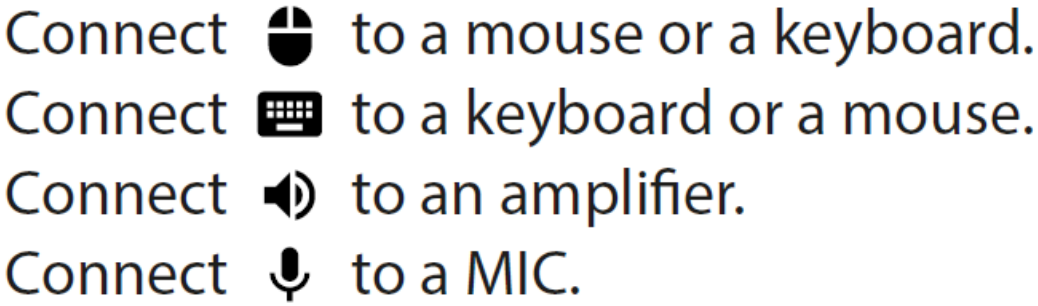


1. Power Button: Press to turn on/off the unit.
2. Power Indicator: The LED will light up once the DC/5V is provided and the unit is turned on.
3. Input Selection: When PC1/PC2 is selected, the corresponding “Select” lights up to indicate input selection(“Select” LEDs flash in a loop under automatic switching mode). “Online” LED lights up when the corresponding USB-B port is connected.
4. IR EXT: Connect IR Extender to this port for IR signal reception from the remote control.
5. IR: For IR signal reception from the remote control.
6. 3.5mm MIC input port.
7. 3.5mm stereo output port.
8. USB 3.0 ports, mainly used for connecting to printers, scanners, U-disk, etc.

Back Panel



9. **Output ports**



Connect “HDMI Out” to HDMI display.

Connect “DisplayPort Out” to DP display.

10. PC1 input ports: Respectively connect to DisplayPort, USB, MIC, stereo ports of PC1.
11. C2 input ports: Respectively connect to DisplayPort, USB, MIC, stereo ports of PC2.
12. DC 5V: Plug the 5V DC power supply into the unit.

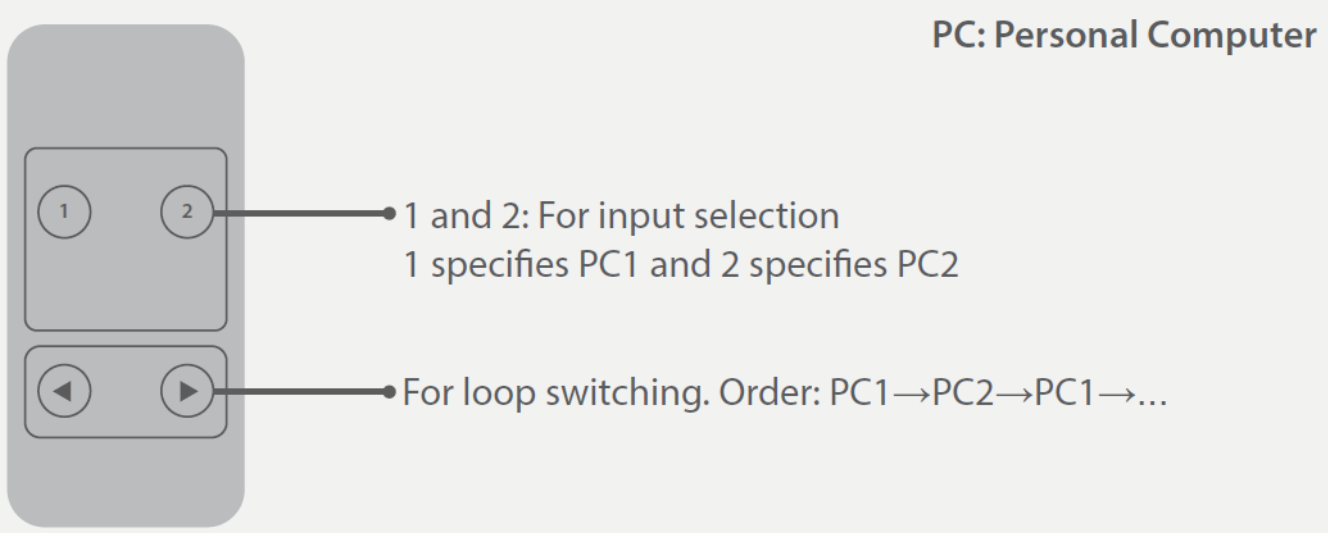
Specifications

Connectors	
Console Connectors	USB 2.0-A x2 (Back) DisplayPort Female x1(Back) HDMI Female x1(Back) 3.5mm Stereo Jack x2 (Green, 1 Front, 1 Back) 3.5mm Stereo Jack x2 (Pink, 1 Front, 1 Back)
KVM Connectors	USB 3.0-B x2 (Back) DisplayPort Female x2 (Back) 3.5mm Stereo Jack x2 (Green, Back) 3.5mm Stereo Jack x2 (Pink, Back)
USB HUB Connectors	USB 3.0-A x2 (Front)
Resolution	
Max Resolution	3840x2160@60Hz 4096x2160@60Hz
Operating Frequency	
HDMI Bandwidth	18G
DisplayPort Bandwidth	32.4G
Mechanical	
Material	Metal
Size (L-W-H)	7x2.9x1in - (178x75x26mm)
Weight (Net)	13lbs - (372.8g)
Warranty	
Limited Warranty	3 Years
Environmental	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10% to 85% RH (no condensation)
Storage Temperature	-10°C to 80°C (14°F to 176°F)
Storage Humidity	5% to 90 % RH (no condensation)
Power Requirement	
External Power Supply	DC 5V
Power Consumption (Max)	12W
ESD Protection	±8kV (air-gap discharge) & ±4kV (contact discharge)
Regulatory Approvals	
Certifications	FCC, CE
Power Supply	FCC, CE
Accessories	
User Manual	English Version

Installation Procedures

Operation

1. Begin by establishing connections between the Host Computers and the SolidKVM SK05 Switch. Utilize USB cables to connect the Host Computers to the KVM Switch USB-B ports. Subsequently, interlink the MIC and stereo ports of the Host Computers with the corresponding ports located above the “DisplayPort In” of the KVM Switch using 3.5mm audio cables. Conclude this step by connecting the Host Computers to the “DisplayPort In” ports of the KVM Switch using DisplayPort cables.
2. Proceed to connect peripheral devices. Attach the keyboard and mouse to the USB-A ports located on the KVM Switch back panel. Next, connect microphones and amplifiers to either the MIC and stereo ports on the front panel or above the “DisplayPort Out” of the KVM Switch using 3.5mm audio cables. For display connectivity, opt to link a display to the “DisplayPort Out” of the KVM Switch utilizing a DisplayPort cable with a maximum length of 2 meters. Alternatively, connect a display to the KVM Switch “HDMI Out” via an HDMI cable. Note: Video output will automatically switch to the connected port. In the event that both “DisplayPort Out” and “HDMI Out” are connected, video output will prioritize DisplayPort.
3. Power on the KVM Switch by supplying it with DC 5V and pressing the power button. Upon activation, the “Power” indicator will light up, confirming that power is operational. Ensure that the USB-B ports are connected properly, and the “Online” indicators will light up. The “Select” indicator will light up to denote the currently selected Host Computers.
4. Utilize the buttons located on the Switch front panel to select the input source. Upon selection, the corresponding “Select” indicator will light up, and the display will showcase the corresponding image. Subsequently, the selected Host Computers can be controlled using a keyboard and mouse.
5. The remote control functionality mirrors the manual buttons, facilitating input selection and control with equal efficiency and precision.



6. For external function, connect printer/scanner/U-disk to the USB-A ports on the Switch front panel.

Installation Procedures

Special Function Operation

1. Mouse Traversal Function:
   Place the mouse on the far right side of the display and continue to slide to the right for 2 seconds, the Switch automatically switches to the next port. Switching order is: PC1→PC2→PC1→…;
2. USB-B detection switching function:

1. When the KVM Switch detects that a PC is connected to the USB-B port of the Switch, it immediately switches to this PC and the corresponding “Online” and “Select” indicators light up. For instance, if PC1 is already connected and PC2 is subsequently connected to the KVM Switch via the USB-B port, it swiftly switches to PC2.
2. When the current selected PC is powered off or the USB cable is dialed out, the KVM Switch automatically switches to the next PC with the power on and the USB port connected.

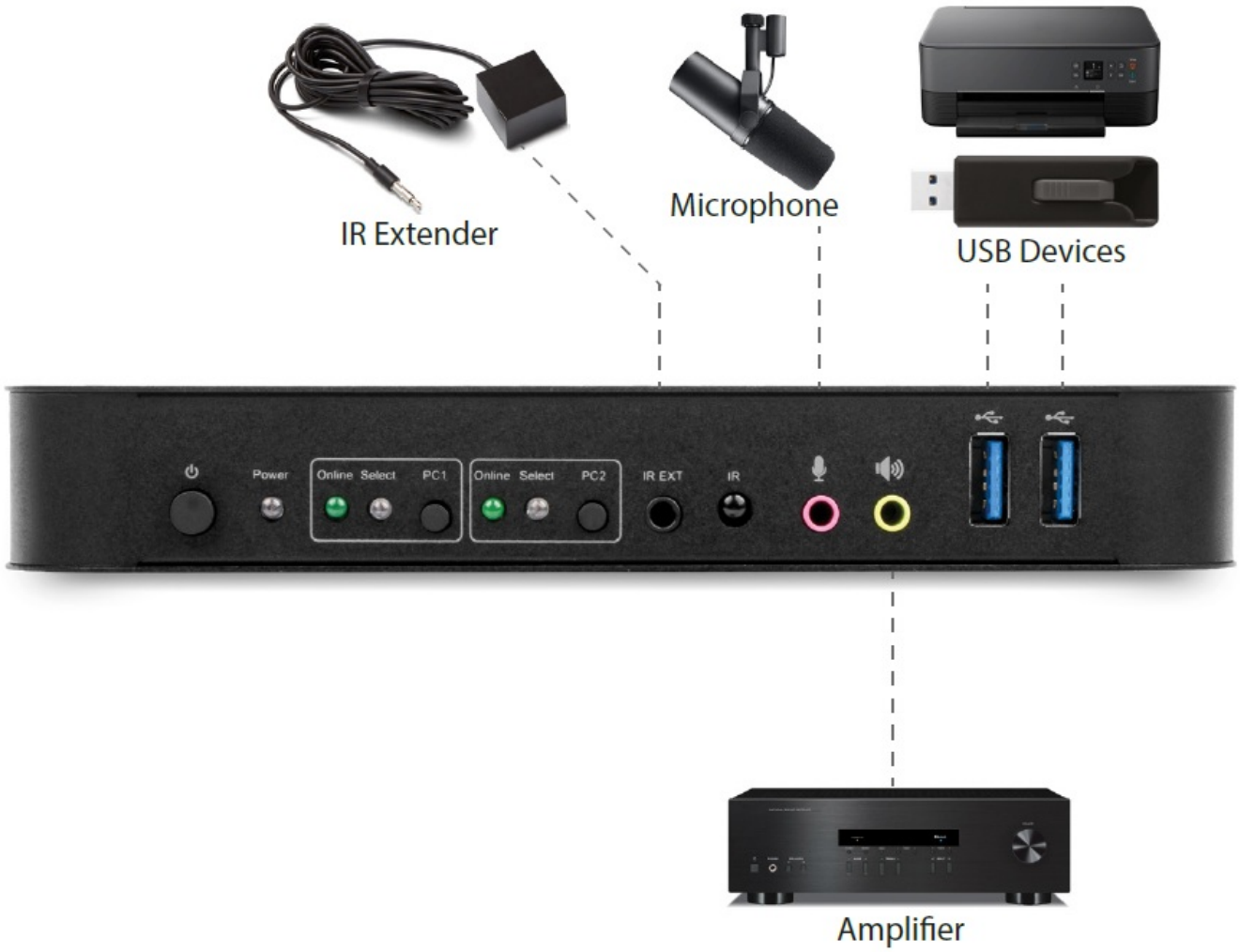
3. Hotkey function (It doesn’t work on functional keyboard and only the 2 USB-A ports on the back panel can get access to this function.)

Number	Hotkey Combination	Function Description
1	Scroll Lock++Scroll Lock +→or↓1	Switch to the next port
2	Scroll Lock++ Scroll Lock +←or↑	Switch to the previous port
3	Scroll Lock++ Scroll Lock +[N]	Switch to PC N
4	Scroll Lock++ Scroll Lock +S	Automatic switching function(Default: 15 seconds)
5	Scroll Lock++ Scroll Lock +I+[N]+[Enter]	Set the automatic switching interval (5~999 seconds)
6	Scroll Lock++ Scroll Lock +B+[1/0]	Buzzer on/off (Default: on)
7	Scroll Lock++ Scroll Lock +F+L+A+S+H+[Enter]	All resume hotkey default mode

Note: Hotkeys are not case-sensitive; Buzzer sounds when switching between PC1 and PC2.

Connection Diagram

Front Panel


IR Extender
Microphone
USB Devices
Power
Online Select PC1
Online Select PC2
IR EXT
IR
Amplifier

Back Panel

Contact Information

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Disclaimer

Documents / Resources

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References

- **User Manual**