



StarTech com SV565UTPU VGA USB KVM Console Extender Over CAT5 UTP User Guide

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StarTech com SV565UTPU VGA USB KVM Console Extender Over CAT5 UTP



Product Information

- Product Name: VGA USB KVM Console Extender over CAT5 UTP (500 ft)
- Model Numbers: SV565UTPU, SV565UTPUGB, SV565UTPUEU
- Manual Revision: 01/26/2023
- Manufacturer: StarTech
- FCC Compliance: Yes
- Industry Canada Compliance: Yes

Introduction

The VGA USB KVM Console Extender is designed to extend the distance between a computer and a console (keyboard, video, and mouse) by using CAT5 UTP cables. It allows remote control and management of a computer from up to 500 ft away. This product also supports the control of multiple computers through a KVM switch.

Packaging Contents

- 1 x VGA USB KVM Console Extender Host Unit
- 1 x VGA USB KVM Console Extender Remote Unit
- 2 x Power Adapters (for KVM switch configuration)
- 1 x User Manual

System Requirements

- A computer with VGA, USB, and audio ports
- A console device (keyboard, video, and mouse)
- CAT5 UTP cables (up to 500 ft)
- (For KVM switch configuration) A KVM switch with console ports

Product Usage Instructions

Connecting Your KVM Extender

1. Prepare your site by ensuring that the computer and console devices are in their desired locations.
2. Connect the Host Unit to the computer using VGA, USB, and audio cables.
3. Connect the Remote Unit to the console device using VGA, USB, and audio cables.

4. If using the KVM switch configuration, connect the Host Unit to the console ports on the KVM switch using VGA, USB, and audio cables.
5. Ensure that all connections are secure.

Using the KVM Extender

Using the Host Unit

- To control the remote computer from the local end, use the keyboard, video, and mouse connected to the Host Unit.
- For compatibility with KVM switches that use the [Ctrl] key as the hotkey sequence, set the Host Unit to Compatibility Mode. Refer to page 6 of the user manual for detailed instructions.

Using the Remote Unit

- At the remote end, use the console device (keyboard, video, and mouse) connected to the Remote Unit to control and manage the computer.

Troubleshooting

If you encounter any issues with the product, refer to the troubleshooting section of the user manual (page 13) for assistance.

Specifications

For detailed technical specifications of the product, refer to page 14 of the user manual.

Technical Support

If you require further assistance or have any questions, please contact our technical support team. Contact information can be found on page 15 of the user manual.

Warranty Information

The product is covered by a warranty. For warranty details, refer to page 15 of the user manual.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

CAN ICES-3 (A)/NMB-3(A)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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Introduction

The SV565UTPU USB VGA KVM Console Extender over CAT5 UTP (500 ft) lets you control a server, computer, or multiple computers (connected through KVM Switch) over a standard Cat5 or Cat6 UTP network cable connection, at distances of up to 500 ft (150 m) away. PC connection cables are included with this product for a ready out-of-the-box solution. You can use your existing keyboard, mouse, and monitor to access both the server room and your office computer, saving space and avoiding the need for a dedicated remote console by allowing you to switch between the workstation view and KVM view at the remote location. Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Packaging Contents

- 1 x host unit
- 1 x remote unit
- 2 x 6 ft 2-in-1 USB VGA KVM cables
- 8 x rubber feet
- 1 x universal power adapter
- 1 x instruction manual

System Requirements

- 1 x integrated KVM cable each for the host and remote computers. Longer cables are available from StarTech.com, part numbers: SVECONx (PS/2), SVECONUSx (USB)
- Unshielded Category 5/5e/6 twisted pair (UTP) straight-through network cable terminated at each end with RJ-45 connectors (if using surface cabling)
OR
- Unshielded Category 5/5e/6 twisted pair (UTP) straight-through network cable terminated at each end in a wall-mounted outlet, with a standard Category 5/5e/6 patch cable, at both locations (if using premises cabling)

NOTE: The total length of cable between the Host and Remote Units cannot exceed 500 feet (150 meters), including patch cables (if used). Category 5e and 6 cabling is compatible with this product and may improve performance.

NOTE: Long cable lengths between the Host and Remote Units may adversely affect image quality at high resolutions and refresh rates. If you need to run your remote displays at high resolutions and frequencies, use as little cabling between locations as possible and avoid practices such as “coiling” unused cable in a ceiling.

This product will also control a KVM switch, allowing you to manage more than one computer remotely. In this configuration, you can connect the KVM extender's Host Unit to the “console” ports on the KVM. You must use the

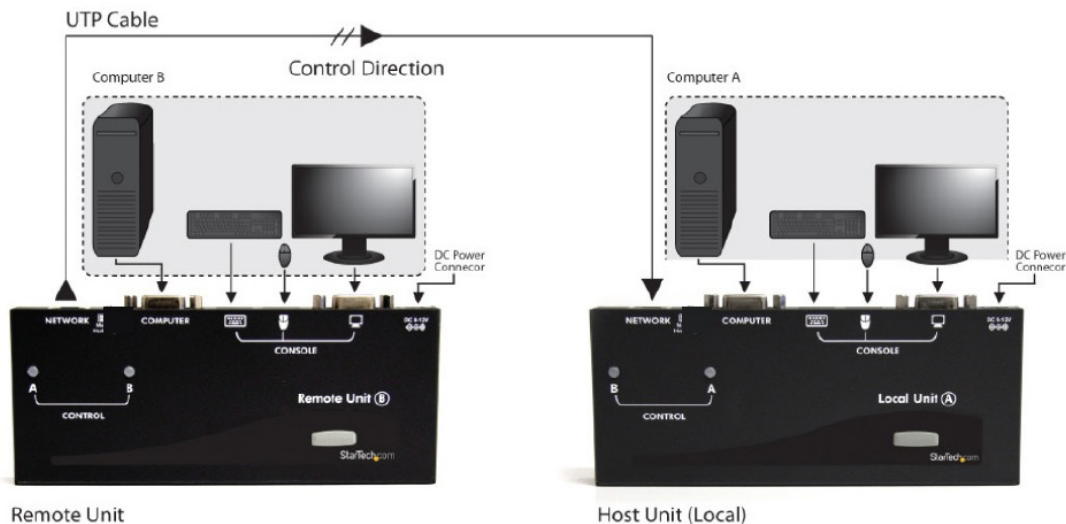
provided power adapters if using this configuration. You should set the Host Unit to Compatibility Mode before connecting it to a KVM that uses the [Ctrl] key as its hotkey sequence; see page 6 for details.

Connecting Your KVM Extender

Preparing Your Site

Before you can install the product, you need to prepare your site.

1. Determine where the host computer will be located and set up the computer.
2. Determine where the console devices (mouse, keyboard, monitor) will be located and place them appropriately.
3. If you are using surface cabling, ensure you have enough Category 5 unshielded twisted pair (UTP) network cabling to connect the Host Unit to the Remote Unit's location, and that each end is terminated with a RJ-45 connector. The cabling should not go through any networking equipment (i.e. router, switch).
OR
4. If you are using premises cabling, ensure that the Category 5 unshielded twisted pair (UTP) network cabling between the Host Unit and the Remote Unit has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Remote Unit and the Host Unit to their respective outlets.



Installing the Host Unit

1. Place the Host Unit near the computer.
2. Switch off the computer and disconnect any connected devices.
3. Using the provided StarTech.com integrated KVM cable, connect the end of the cable that has two (USB) or three (PS/2 + VGA) connectors to the VGA Out connector and the USB or mouse and keyboard PS/2 connectors on the computer as appropriate. (The PS/2 version of the cable is color-coded.) Connect the opposite end of the cable with a single connector to the gray-coded connector marked COMPUTER on the Host Unit of the KVM extender.
4. If you wish to have console access to the host computer, connect a USB mouse, keyboard, and VGA monitor to the indicators marked as CONSOLE on the Host Unit.
5. Connect the UTP cable connection for the Remote Unit to the NETWORK RJ-45 connector on the Host Unit. Connect the opposite end to a terminated wall outlet (if you are using premises cabling).

NOTE: The Host Unit can draw power from the Host computer system. If it cannot draw sufficient power from

the Host computer, however, a power adapter (not included) may be required.

Installing the Remote Unit

1. Place the Remote Unit near the remote keyboard/mouse/monitor setup.
2. Connect the USB mouse, keyboard, and VGA monitor to the indicators marked as CONSOLE on the Remote Unit. OPTIONAL: If connecting a computer system directly to the Remote Unit, switch off the computer and disconnect any existing VGA and input connections. Using a StarTech.com integrated KVM cable, connect the end of the cable that has two (USB) or three (PS/2) connectors to the VGA Out connector and the USB or mouse and keyboard PS/2 connectors on the computer as appropriate. (The PS/2 version of the cable is color-coded.) Connect the opposite end of the cable with a single connector to the gray-coded connector marked COMPUTER on the Remote Unit of the KVM extender.
3. Connect the UTP cable connection for the Remote Unit to the NETWORK RJ-45 connector on the Remote Unit. Connect the opposite end to a terminated wall outlet (if using premises cabling).
4. Connect the power adapter from an electrical outlet to the Remote Unit.

WARNING! The UTP network cables that connect the Host and Remote Units carry electrical current and should not be plugged into other devices, as they may cause damage. We strongly recommend marking the cables you are using with this product at both locations for easy identification.

Video Compensation (Remote Unit Only)

Video Compensation allows the user to adjust the equalization on the Remote Unit to optimize video performance based on the length of the cable being used, as well as other factors that may affect it. There are five segments of various lengths of CAT 5 cables from which to choose; to achieve the best visibility, please refer to the section titled Keyboard Shortcut Command Sequences, to adjust the video compensation. First, note the length of the CAT 5 cable you used. Then, use the hotkeys to adjust the video compensation accordingly. You can use the hotkey sequence as outlined in the section titled Keyboard Shortcut Command Sequences.

Using the KVM Extender

This section details how to use your KVM extender at both the host and remote locations.

Using the Host Unit

The Host Unit allows users connected to the Host and Remote units to share control of devices (hosts, computers, KVM Switches) connected to it. The Host Unit has three modes that control which user may access the system at a given time: Auto (the KVM extender looks for keyboard or mouse activity from both A and B and automatically accepts input from the active console), Local (only the user seated at the Host unit can access the system), and Remote (only the user at the Remote Unit can access the system). You can use either keyboard shortcuts (if there is a keyboard and mouse attached) or the mode switch on the top of the Host Unit to control which user has access to devices connected to the Host unit, by pressing the button in sequence. By default, the Host Unit operates in Auto mode and switches to the next mode in the sequence each time the switch is pressed as follows: Having a keyboard and mouse attached to the console ports on the Host Unit is recommended since it offers access to a number of extended features.



LED Indicators

Mode	An Indicator	B Indicator
Auto (Auto senses activity)	Flashing	Flashing
Local (User at Local Unit has exclusive control)	On (solid)	Off
Remote (User at Remote Unit has exclusive control)	Off	On (solid)

Keyboard Shortcut Command Sequences

Standard Command	With Compatibility Mode Enabled	Description
[Ctrl] – [Ctrl] – [T]	[Ctrl] – [Ctrl] – [T]	Toggles control of Computer A between Auto, Local, and Remote modes
[Ctrl] – [Ctrl] – [Esc]	[Ctrl] – [Ctrl] – [Esc]	Cancels the hotkey sequence
[Ctrl] – [Ctrl] – [Alt]+[E]	[Ctrl] – [Ctrl] – [Alt]+[E]	Enables (2 beeps) or disables (1 beep) Compatibility Mode so that the KVM extender will work with a KVM switch that also uses a [Ctrl] hotkey sequence
[Ctrl] – [Ctrl] – [1]	[Ctrl] – [Ctrl] – [E] – [1]	Local Mode: Allows the user at Local Unit exclusive access to the system; remote access from Remote Unit is disabled
[Ctrl] – [Ctrl] – [2]	[Ctrl] – [Ctrl] – [E] – [2]	Remote Mode: Allows the console at Remote Unit exclusive access to Computer A; access to the computer from the Host Unit is disabled
[Ctrl] – [Ctrl] – [3]	[Ctrl] – [Ctrl] – [E] – [3]	Auto Mode: Wait for console activity
[Ctrl] – [Ctrl] – [F3]	[Ctrl] – [Ctrl] – [E] – [F3]	Sets the interval of inactivity in seconds that the Host Unit will wait before returning to Auto Mode after a Unit has assumed control
[Ctrl] – [Ctrl] – [F4]	[Ctrl] – [Ctrl] – [E] – [F4]	Adjusts the typematic rate for improved keyboard responsiveness (PS/2 keyboard only)

Standard Command	With Compatibility Mode Enabled	Description
[Ctrl] – [Ctrl] – [F6]	[Ctrl] – [Ctrl] – [E] – [F6]	<p>Privacy Setting:</p> <p>A. Local Unit in Local mode</p> <p>(LED B: Off, LED A: On)</p> <p>1 beep: Reset to Factory Default.</p> <p>2/3 beeps: Disable the Local Unit output video signal.</p> <p>B. Local Unit in Auto mode</p> <p>(LED A&B flashes alternately) 1 beep: Reset to Factory Default. 2 beeps: Upon keyboard/mouse</p> <p>activation, disables the Local Unit video output temporarily. (Set for 5,15,30 or 60 second interval)</p> <p>3 beeps: Upon keyboard/mouse activation the Remote Unit or Local Unit users can disable the output video signal temporarily. (The user can protect their privacy for 5,15, 30,60 seconds)</p>
[Ctrl] – [Ctrl] – [F12]	[Ctrl] – [Ctrl] – [E] – [F12]	Resets PS/2 mouse synchronization
[Ctrl] – [Ctrl] – [V] – 4 digit code	[Ctrl] – [Ctrl]- [V] – [E] – 4 digit code	<p>Set the maximum video resolution (requires computer restart) for both Remote and Host units.</p> <p>See page 12 for codes.</p>

Mode	A Indicator	B Indicator
Remote Access (Computer A)	On (solid)	Off
Local Access (Computer B)	Off	On (solid)

Standard Command	With Compatibility Mode Enabled	Description
[Ctrl] – [Ctrl] – [T]	[Ctrl] – [Ctrl] – [T]	Toggles console control between Computer A and Computer B
[Ctrl] – [Ctrl] – [Esc]	[Ctrl] – [Ctrl] – [Esc]	Cancels the hotkey sequence
[Ctrl] – [Ctrl] – [Alt]+[E]	[Ctrl] – [Ctrl] – [Alt]+[E]	Enables (2 beeps) or disables (1 beep) Compatibility Mode so that the KVM extender will work with a KVM switch that also uses a [Ctrl] hotkey sequence

Standard Command	With Compatibility Mode Enabled	Description
[Ctrl] – [Ctrl] – [1]	[Ctrl] – [Ctrl] – [E] – [1]	Switches control to Computer B
[Ctrl] – [Ctrl] – [2]	[Ctrl] – [Ctrl] – [E] – [2]	Switches control to Computer A (input allowed only if the Host Unit is in Remote or Auto mode)
[Ctrl] – [Ctrl] – [F2]	[Ctrl] – [Ctrl] – [E] – [F2]	Toggles console control between Computer A and Computer B
[Ctrl] – [Ctrl] – [F4]	[Ctrl] – [Ctrl] – [E] – [F4]	Adjusts the typematic rate for improved keyboard responsiveness (PS/2 keyboard only)
[Ctrl] – [Ctrl] – [F11]	[Ctrl] – [Ctrl] – [E] – [F11]	Adjusts remote video quality based on the length of UTP cabling between the two computers (available only when switched to Computer A)
[Ctrl] – [Ctrl] – [F12]	[Ctrl] – [Ctrl] – [E] – [F12]	Reset PS/2 mouse synchronization
[Ctrl] – [Ctrl] – [V] – 4 digit code	[Ctrl] – [Ctrl] – [E] – [V] – 4 digit code	Set maximum video resolution (requires computer restart) for both Remote/Host units. See page 12 for codes.

Beep Codes

Some of the keyboard command sequences you issue to the Host Unit have multiple possible settings. The unit will beep to indicate what setting you have selected for the command you issued. (A short beep followed by a long beep indicates an invalid command.)

1. [Ctrl] – [Ctrl] – [Alt]+[E] (Compatibility Mode) beep: disabled
2. beeps: enabled [Ctrl] – [Ctrl] – [F3] (Inactivity Interval for Auto Mode)

Beep: 5 seconds

1. Beeps: 15 seconds
2. Beeps: 30 seconds
3. Beeps: 60 seconds
4. [Ctrl] – [Ctrl] – [F4] (Typematic Rate)
5. Beep: 6 characters/sec.
6. beeps: 12 characters/sec.
7. beeps: 20 characters/sec.
8. beeps: 30 characters/sec.

Note: Commands described in the [Key] – [Key] format are keys that must be pressed in order on the keyboard. Commands described in the [Key]+[Key] format must be pressed simultaneously.

Note: If the Num Lock, Caps Lock, and Scroll Lock lights are flashing in unison on the keyboard, the other Unit has control of Computer A. You will not be able to use the computer or issue commands until the other unit has finished using the computer.

Note: If the Extender is operating in Compatibility Mode ([Ctrl] – [Ctrl] – [E] hotkey sequence), you must enter [Ctrl] – [Ctrl] – [E] – [E] to access port E on the attached KVM switch.

Using the Remote Unit

The Remote Unit allows a user at the Remote Unit to assume control of devices connected to the Host Unit if the Host Unit is set to Auto or Remote mode, and it also permits the user seated at the Remote Unit to use any connected system as though the KVM Extender was transparent. You can use either keyboard shortcuts or the mode switch on the top of the Remote Unit to alternate control between A and B. Unlike the Host Unit, however, the switch on top of the Remote unit only offers two selectable modes: LED Indicators

Beep Codes

Some of the keyboard command sequences you issue to the Remote Unit have multiple possible settings. The Unit will beep to indicate what setting you have selected for the command you issued. (A short beep followed by a long beep indicates an invalid command.)

4-Digit Code	Resolution	4-Digit Code	Resolution
1007	1024 x 768	1612	1600 x 1200
1208	1280 x 800	1610	1680 x 1050
1210	1280 x 1024	1910	1920 x 1080
1307	1360 x 768	1912	1920 x 1200
1409	1440 x 900	1914	1920 x 1440
1410	1440 x 1050	2011	2048 x 1152
1609	1600 x 900		

[Ctrl] – [Ctrl] – [Alt]+[E] (Compatibility Mode)

1. beep: disabled
2. beeps: enabled

[Ctrl] – [Ctrl] – [F11] (Remote Image Quality Adjustment)

1. beep: 0 ~ 130 feet (0 ~ 40 meters) of UTP cable length
2. beeps: 130 ~ 260 feet (40 ~ 80 meters) of UTP cable length
3. beeps: 260 ~ 390 feet (80 ~ 120 meters) of UTP cable length
4. beeps: 390 ~ 500 feet (120 ~ 150 meters) of UTP cable length

[Ctrl] – [Ctrl] – [F4] (Typematic Rate)

1. Beep: 6 characters/sec.
2. beeps: 12 characters/sec.
3. beeps: 20 characters/sec.
4. beeps: 30 characters/sec.

Note: Commands described in the [Key] – [Key] format are keys that must be pressed in order on the keyboard. Commands described in the [Key]+[Key] format must be pressed simultaneously.

Note: If the NumLock, CapsLock, and ScrollLock lights are flashing in unison on the keyboard, the other Unit has control of Computer A. You will not be able to use A until The other Unit releases access to that computer.

Note: If the Extender is operating in Compatability Mode ([Ctrl] – [Ctrl] – [E] hotkey sequence), you must enter [Ctrl] – [Ctrl] – [E] – [E] to access port E on the attached KVM switch.

Set Maximum Video Resolution

By default, the KVM switch is set to output an EDID signal with a maximum video resolution of 1024 x 768 to the host computer systems. To be able to set a higher video resolution on the host computer systems, use the following command with the 4-digit code for the maximum video resolution you wish to set.

NOTE: Do not use the numeric keypad for entering the 4-digit Code. Only use the number keys along the top row of the keyboard. Left <CTRL>, Left <CTRL>, V, 4 digit code

NOTE: You may need to reboot the host computer(s) for the new settings to take effect. If not done automatically by the host computer's operating system, you may then need to manually adjust the display settings to the new maximum resolution

Troubleshooting

How do the A and B modes work for the local and remote units?

In order to properly control the local computer at the remote end, it is useful to understand the different possible states the two units can be in.

Note: In the following descriptions, "console" refers to the mouse, keyboard, and monitor plugged into the local or remote units. The local unit is set to A + the remote unit is set to A

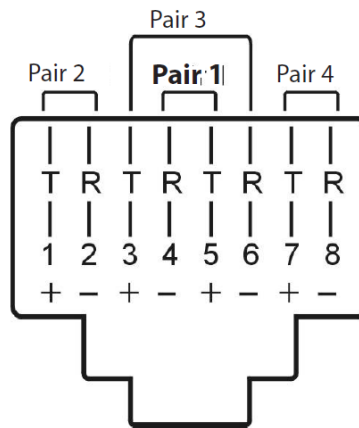
- The local console has control over the local computer.
- The remote console can see what is happening on the local computer. This functionality can be changed so that when the local unit has control over the local computer, the remote console sees a black screen, and vice versa.
- The local unit is set to A + the remote unit is set to B
- The local console has control over the local computer.
- The remote console has control over the remote computer.
- The local unit is set to B + the remote unit is set to A

- The local console can see what is happening on the local computer. This functionality can be changed so that when the local unit has control over the local computer, the remote console sees a black screen, and vice versa.
- The remote console has control over the local computer. The local unit is set to B + the remote unit is set to B
- The local console can see what is happening on the local computer. This functionality can be changed so that when the local unit has control over the local computer, the remote console sees a black screen, and vice versa.
- The remote console has control over the remote computer.

Specifications

Maximum Resolution	1024 x 768 (at maximum UTP cable length) Actual maximum resolution varies by network cable length
Maximum Range	500 feet (150 meters)
Network Cabling Type	Straight-through Unshielded Twisted Pair (UTP) Cat. 5+
Connectors	Each, Host and Remote Unit 2 x HD-15 female (1 x KVM, 1 x console VGA) 1 x RJ-45 2 x USB keyboard/mouse (for console) 1 x Power (optional)
Power Adapter	9~12V DC, 600mA, center positive (per Unit) (Optional; only required when connected using a conventional KVM switch)

Pin	Wire Color	Pair	Function
1	White/ Orange	2	T
2	Orange	2	R
3	White/ Green	3	T
4	Blue	1	R
5	White/ Blue	1	T
6	Green	3	R
7	White/ Brown	4	T
8	Brown	4	R



Technical Support

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Warranty Information

This product is backed by a two-year warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase.

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Documents / Resources

	<p>StarTech.com SV565UTPU VGA USB KVM Console Extender Over CAT5 UTP [pdf] User Guide</p> <p>SV565UTPU VGA USB KVM Console Extender Over CAT5 UTP, SV565UTPU, VGA USB KVM Console Extender Over CAT5 UTP, KVM Console Extender Over CAT5 UTP, Console Extender Over CAT5 UTP, Extender Over CAT5 UTP, Over CAT5 UTP, CAT5 UTP, UTP</p>
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References

- [!\[\]\(849840539e55921a3851a4ff96d7400d_img.jpg\) StarTech.com | IT Pro's Trusted Source for Connectivity Accessories | Europe](#)
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