



**AC7934**  
**4-Port DisplayPort 4K@60Hz KVM Switch**

**en**

Manual

# AC7934 | 4-Port DisplayPort 4K@60Hz KVM Switch

## Table of contents

<b>Introduction</b> .....	<b>3</b>
Features .....	3
Package Contents .....	3
<b>Specifications</b> .....	<b>4</b>
OS Compatibility .....	5
GPU Requirements .....	5
<b>Operation Controls and Functions</b> .....	<b>6</b>
Front Panel .....	6
Rear Panel .....	7
<b>IR Remote</b> .....	<b>8</b>
<b>IR Receiver</b> .....	<b>8</b>
<b>Keyboard &amp; Mouse Hotkey Function</b> .....	<b>9</b>
Mouse Hotkeys .....	9
<b>RS-232 Control and ASCII Command Interface</b> .....	<b>10</b>
<b>ASCII Commands</b> .....	<b>11</b>
<b>Setup Examples</b> .....	<b>13</b>
Important Notice on DisplayPort Daisy-Chain (MST) Support .....	13
<b>Supported Resolutions</b> .....	<b>14</b>
<b>Service and Support</b> .....	<b>15</b>
<b>Warning and Points of Attention</b> .....	<b>15</b>
<b>Warranty Conditions</b> .....	<b>16</b>
<b>When My Product Gets Defective</b> .....	<b>16</b>

## Introduction

The AC7934 4-port DisplayPort KVM switch controls four computers while using a single monitor, single USB keyboard and mouse. The DisplayPort output supports a monitor with a resolution up to 4K@60Hz. The AC7934 lets you switch between computers using the buttons on the switch itself, the IR remote control, keyboard hotkeys, a mouse, or RS-232 commands. The AC7934 has a solid metal housing and comes with all needed cabling.

### **Control four devices with a single DisplayPort monitor, keyboard and mouse**

Simplify your workspace by connecting four computers to the AC7934 via DisplayPort. Connect a single DisplayPort monitor and a keyboard and mouse set to the switch and control all host devices with minimal setup.

### **Supports up to 4K@60Hz**

The AC7934 DisplayPort KVM switch supports 4K@60Hz, 4:4:4 12-bit, DisplayPort 1.4a and is HDCP 2.2 compliant.

### **Easy switching between computers**

Switching between four connected computers is easy with the dedicated button on the AC7934 KVM switch. Prefer to use IR control, a mouse, keyboard shortcuts or RS-232 commands? This is also supported.

## Features

- DisplayPort 1.4a and HDCP 2.2 compliant
- Video bandwidth is up to 32.4Gbps
- 4-port DisplayPort KVM switcher with USB 3.2 Gen 1 hub, and transfer rate is up to SuperSpeed 5Gbps
- One USB console controls 4 computers and 4 USB peripherals
- Support PC switching via SELECT button, hotkeys, mouse or API commands
- Support power on detection
- Support Multi-Stream Transport (MST)
- Support HD audio
- Dual-Mode DisplayPort technology (DP++) supports passive HDMI and DVI adapter
- Multi-platform support – Windows, MAC and Linux

## Package Contents

The following parts need to be present in the packing:

1x 4-Port 4K@60Hz DisplayPort KVM Switch  
1x IR Remote (CR2025 battery included)  
1x 38KHz IR Receiver Cable 1.5m  
1x 3pin-3.5mm Phoenix Connector male  
4x USB-A male to USB-B 3.0 male 1.8m  
4x DP male to male cable 1.5m  
1x Secure locking power supply 12V / 1A  
2x Mounting brackets, incl. screws  
1x Quick Install Guide

## Specifications

<b>Technical</b>	
DisplayPort Compliance	DP 1.4a
DisplayPort Format	DP, DP++ (Dual-Mode DisplayPort)
HDMI Compliance	HDMI 2.0b (via DP++ compatibility)
HDCP Compliance	HDCP 2.2
DP Video Bandwidth	32.4Gbps
HDMI Video Bandwidth	18Gbps
USB Data Rates (Device → Host)	USB 3.2 Gen 1: 5Gbps; USB 2.0: 480Mbps; USB 1.1: 12Mbps
Video Resolution (Input & Output)	* All available resolutions are shown in the <a href="#">Supported Resolutions section</a>
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Latency	No Latency
Video Latency	No Latency
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
IR Level	5Vp-p
IR Frequency	38KHz
Audio Formats (DP In/Out)	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-ES, DTS 96/24, DTS-HR, DTS-HD MA, DTS:X, DSD
Transmission Distance	DP 1.4a passive cable: up to 3m; USB 3.2 Gen 1 passive cable: up to 1.8m
ESD Protection	IEC 61000-4-2: ±8kV (Air), ±4kV (Contact)
<b>Connection</b>	
Input ports	4× DP IN (DP Type A, 20-pin female) 4× USB Host (USB 3.2 Gen 1 Type B)
Output ports	1× DISPLAY (DP Type A, 20-pin female) 4× USB-A Device (USB 3.2 Gen 1 Type A)
Control ports	1× IR EXT (3.5mm audio jack) 1× RS-232 (3pin-3.5mm phoenix connector)
<b>Mechanical</b>	
Housing	Metal Enclosure
Color	Black
Dimensions	270mm (W) × 100mm (D) × 30mm (H)
Weight	728g
Power Supply	AC 100–240V 50/60Hz input; DC 12V/1A
Power Consumption	24W (Max)
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60°C
Operating Humidity	20 – 80% relative humidity, non-condensing
Storage Humidity	10 – 90% relative humidity, non-condensing

## OS Compatibility

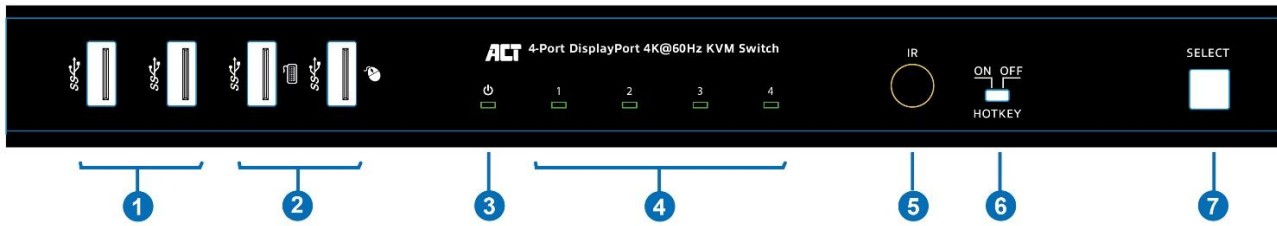
This product supports operating systems that provide native DisplayPort MST support, including Windows, and ChromeOS. MacOS does not support DisplayPort MST for multiple independent external displays.

## GPU Requirements

The DisplayPort source device must support DisplayPort 1.4a with Multi-Stream Transport (MST). The number of displays and maximum resolution may depend on the GPU capabilities.

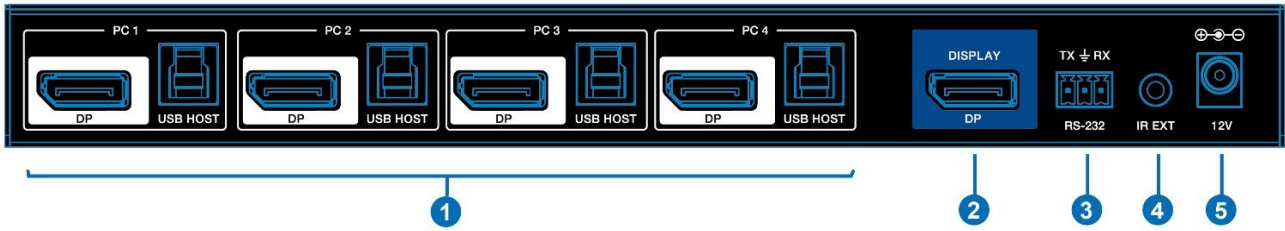
## Operation Controls and Functions

### Front Panel






Name	Function Description
1. USB-A ports	Provides high-speed connectivity for USB devices via USB 3.2 Gen 1.
2. USB-A ports (mouse & keyboard)	Supports connection of a mouse, keyboard, or other USB devices. With the HOTKEY function enabled, KVM operation is available; when disabled, the port functions as a standard USB 3.2 Gen 1 device port.
3. Power LED	Power LED: The white LED lights up when the device is active.
4. Input channel LED (1~4)	The LED corresponding to PC 1, 2, 3, or 4 lights up when that input channel is selected.
5. IR	38 kHz IR signal reception window; wideband IR is not supported.
6. HOTKEY Switch	Move the switch to the left to activate the keyboard & mouse Hotkey Function, move to the right to deactivate it.
7. SELECT button	Press to choose the desired input channel. Input channels (PC 1–4) can also be switched using hotkeys, mouse controls, or API commands.

## Rear Panel



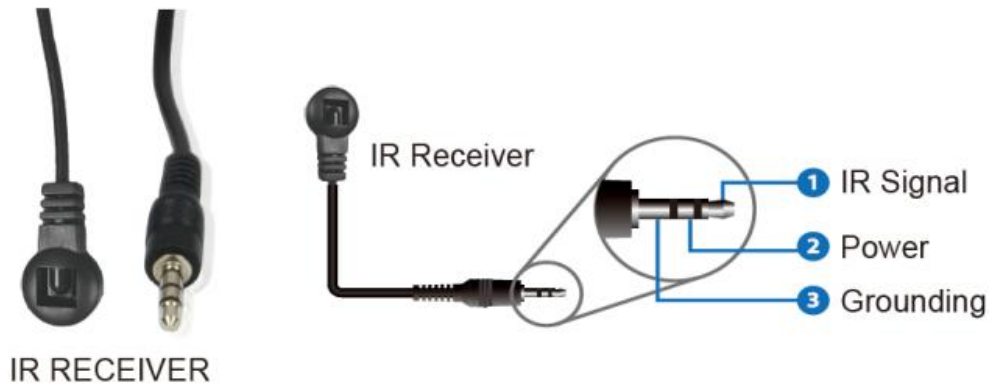
Name	Function Description
1. PC (1~4)	DP port: Connects to the DisplayPort output of the corresponding PC. USB Host port: Connects to the PC's USB host port to enable keyboard, mouse, and USB device control.
2. DISPLAY	Used to connect the KVM switch to a DisplayPort monitor.
3. RS-232	3-pin Phoenix port for upgrades and API command control.
4. IR EXT	IR signal input port used to connect the IR receiver cable.
5. 12V	Power input port for the included DC12V/1A power supply.

## IR Remote

		<b>Power/Standby:</b> Press to turn the KVM switcher on or set it to standby mode.
	<b>1/2/3/4</b>	Press the 1, 2, 3, or 4 button to select the corresponding PC. The matching LED on the front panel will light up green to indicate the active input.
		<b>Cycle Input:</b> Press this button to cycle through the input channels in sequence.

## IR Receiver

IR Receiver pin's layout is as below:



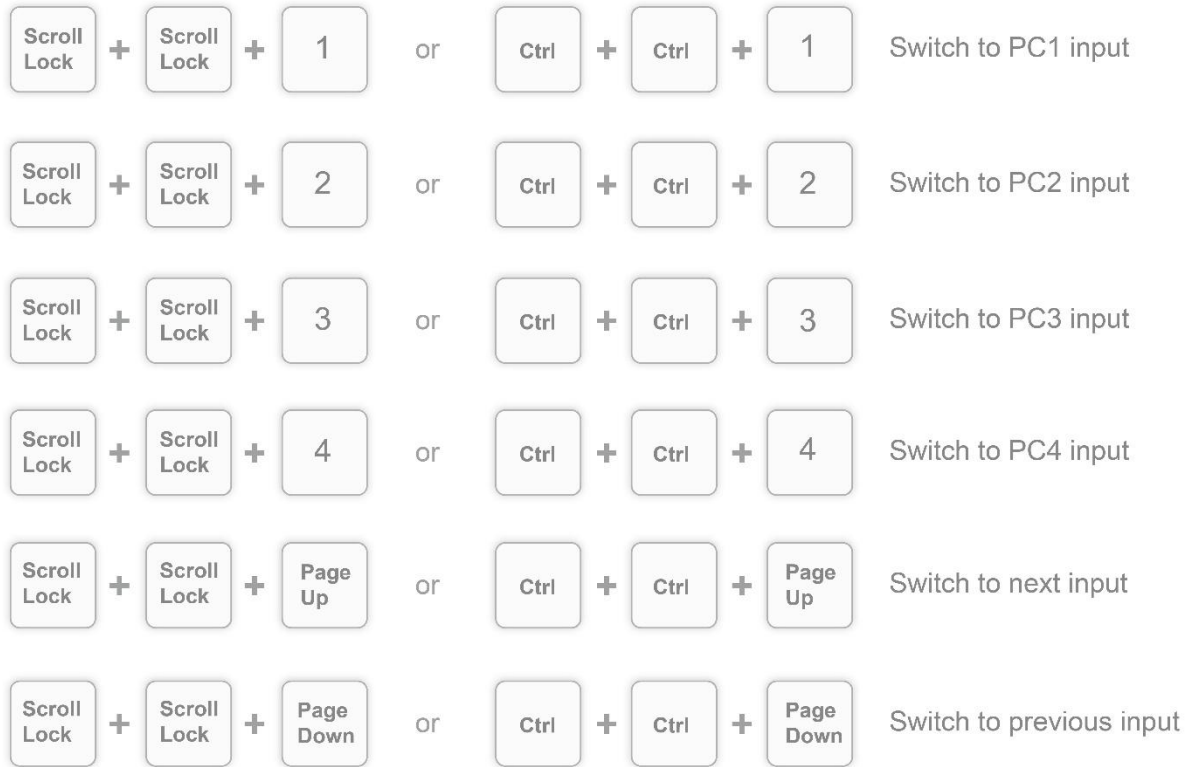
## Keyboard & Mouse Hotkey Function

The front-panel HOTKEY switch enables or disables the hotkey feature:

**OFF:** Hotkey function disabled. The two USB 3.0 ports support USB 3.2 Gen 1 devices.

**ON:** Hotkey function enabled. The two USB 3.0 ports support only USB 1.1 keyboard and mouse for hotkey switching.

**Note:** The numeric keypad on the right side of the keyboard cannot be used for hotkey functions.



## Mouse Hotkeys

Double-click the scroll wheel, then right-click → Switch to next input

Double-click the scroll wheel, then left-click → Switch to previous input

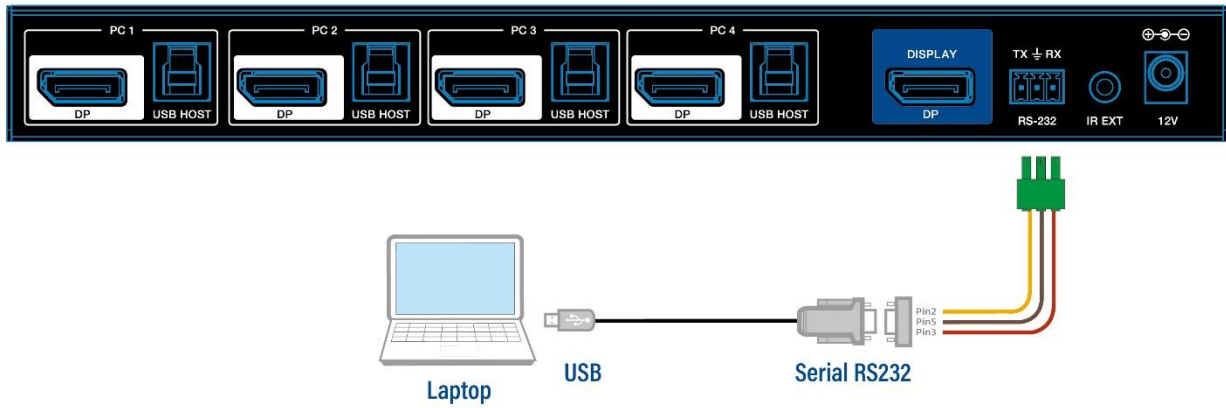
## RS-232 Control and ASCII Command Interface

The device is equipped with an **RS-232 communication port** to facilitate remote control using **ASCII commands**.

### Connection Requirements

The connection between the product and the control PC requires two components:

1. A **3-pin Phoenix connector cable** (for interfacing with the product's port).
2. An **RS-232 to USB cable** (to connect to the PC's standard port).



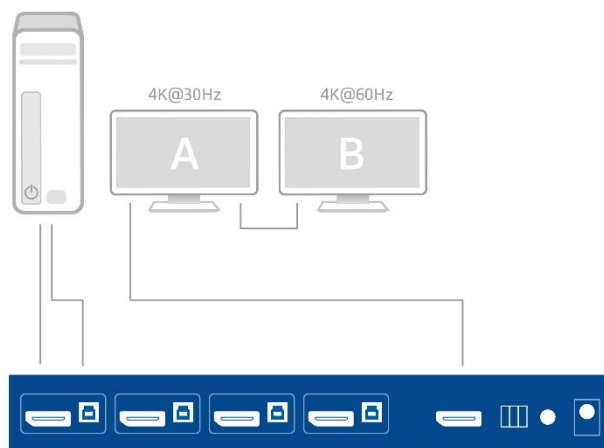
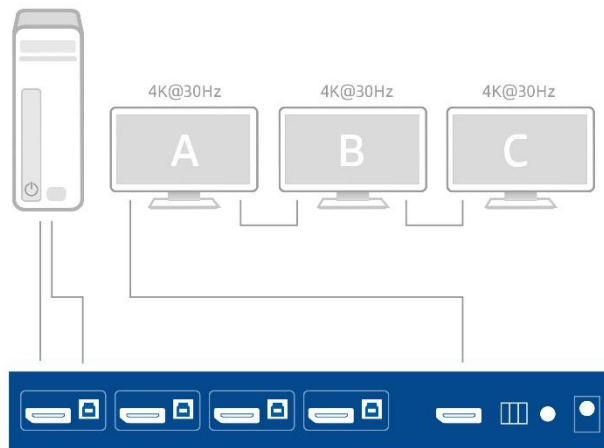
## ASCII Commands

ASCII Commands				
RS-232 Baud rate: 115200; Data bit: 8; Stop bit: 1; Parity bit: none The end mark of command is "<CR><LF>"				
x - Parameter 1, y - Parameter 2				
Command Code	Description	Example	Feedback	Default
?	Get the list of all commands	?	Please see Help page	List all API commands
help	Get the list of all commands	help	Please see Help page	List all API commands
get model	Get device model	get model	AC7934	
status	Get device current status	status	Please see "Status Feedback" sheet	
get version	Get firmware version	get version	BOOT: V2.02.04 MCU: V1.00.01 KVM: V1.00.11	
power on/off	Power on/off the device	power on	Power: on System initializing... Initialization finished! BOOT: V2.02.04 MCU: V1.00.01 KVM: V1.00.11	
get power	Get current power state	get power	Power: off	
reboot	Reboot the device	reboot	Reboot... System initializing... Initialization finished! BOOT: V2.02.04 MCU: V1.00.01 KVM: V1.00.11	
reset	Reset system settings to default (Should type "yes" to confirm, "no" to discard)	reset	Sure to reset system settings to default? Type "yes" after next prompt to confirm...	
set front button x	Set front button locked on/off	set front button off	Button: unlocked	off
get front button	Get front button locked on/off status	get front button	Button: unlocked	
set beep x	Set buzzer on/off	set beep on	beep: off	off
get beep	Get buzzer on/off status	get beep	beep: off	

Command Code	Description	Example	Feedback	Default
set ir x	Set IR on/off	set ir on	IR: on	on
get ir	Get IR on/off status	get ir	IR: on	
set input x	Set input from (x=1~4) x=1: PC1 input x=2: PC2 input x=3: PC3 input x=4: PC4 input	set input 1	DP output video source: PC input 1	PC input 1
get input	Get PC input	get input	DP output video source: PC input 1	
set usb x	Set USB from (x=0~4) x=0: Follow video input x=1: PC1 USB host x=2: PC2 USB host x=3: PC3 USB host x=4: PC4 USB host	set usb 0	USB: follow video input	follow video input
get usb	Get USB input	get usb	USB: PC1 Host	follow video input
get usb host	Get USB host input 5V	get usb host	PC1 USB: 5V PC2 USB: none PC3 USB: none PC4 USB: none	
set output x usb5v y	Set USB device port output (x=0~4) 5V to (y=0~2)  x=0:All USB device ports x=1:USB-A device 1 x=2:USB-A device 2 x=3:USB-A device 3 x=4:USB-A device 4  y=0: Disable 5V output y=1: Follow host y=2: Force 5V always output	set output 1 usb5v 1	USB-A device 1 5V : follow host	follow host
get output x usb5v	Get USB device port output (x=0~4) 5V status x=0:All USB device ports x=1:USB-A device 1 x=2:USB-A device 2 x=3:USB-A device 3 x=4:USB-A device 4	get output 0 usb5v	USB-A device 1 5V: disable 5V output USB-A device 2 5V: follow host  USB-A device 3 5V: force 5V always output USB-A device 4 5V: follow host	

## Setup Examples

# Daisy Chain Applications



## Important Notice on DisplayPort Daisy-Chain (MST) Support

Daisy-chain configurations using DisplayPort Multi-Stream Transport (MST) depend heavily on the technical capabilities of the connected host systems. Factors such as the GPU architecture, available DisplayPort bandwidth, MST compatibility, driver maturity, and firmware implementation can all influence whether multiple displays function correctly in a chained setup. Some graphics solutions — including newer generation GPUs — may occasionally show limitations or inconsistent MST behavior depending on driver versions, firmware, or system design.

For this reason, the performance of daisy-chain setups cannot be guaranteed by the KVM switch alone. The switch passes DisplayPort signals transparently, but the host system determines how MST is handled. Industry guidance emphasizes that reliable daisy-chain operation requires full MST support at the GPU level, as well as proper cabling and signal quality.

Before contacting technical support, we strongly recommend that users:

- Ensure their host system supports DisplayPort 1.2 or higher with MST enabled.
- Update GPU drivers, chipset drivers, firmware, and system BIOS to the latest available versions.
- Verify that all used cables are certified, high-quality DisplayPort cables capable of sustaining stable MST bandwidth.
- Confirm that their graphics card and operating system explicitly support multi-monitor MST configurations.

If issues persist after performing these updates and checks, users should consult the documentation or support resources of their GPU or system manufacturer to confirm MST compatibility and known limitations.

## Supported Resolutions

The following input/output resolutions are supported:

### Standard Resolutions

- 1024×768 @ 60Hz
- 1280×768 @ 60Hz
- 1280×800 @ 60Hz
- 1280×960 @ 60Hz
- 1280×1024 @ 60Hz
- 1360×768 @ 60Hz
- 1366×768 @ 60Hz
- 1400×1050 @ 60Hz
- 1440×900 @ 60Hz
- 1600×900 @ 60Hz
- 1600×1200 @ 60Hz
- 1680×1050 @ 60Hz

### HD Resolutions

- 1280×720 @ 60Hz (720p60)

### Full HD Resolutions

- 1920×1080 @ 60Hz
- 1920×1080 @ 120Hz
- 1920×1080 @ 144Hz
- 1920×1080 @ 165Hz
- 1920×1080 @ 240Hz

### Ultrawide Full HD Resolutions

- 2560×1080 @ 120Hz
- 3840×1080 @ 120Hz

### QHD Resolutions

- 2560×1440 @ 120Hz
- 2560×1440 @ 144Hz

### 4K UHD Resolutions

- 3840×2160 @ 60Hz
- 3840×2160 @ 120Hz (4:4:4 8-bit, 4:2:0 8/10/12-bit)

### 4K Cinema Resolutions

- 4096×2160 @ 60Hz
- 4096×2160 @ 120Hz (4:4:4 8-bit, 4:2:0 8/10/12-bit)

### Additional Support

- All video resolutions defined in the DisplayPort 1.4a specification

## Service and Support

This user manual has been carefully written by ACT's technical experts. If you experience problems installing or using the product, please check the support section on our website: [www.act-connectivity.com](http://www.act-connectivity.com).

## Warning and Points of Attention



Due to laws, directives, and regulations set out by the European Parliament, some (wireless) devices may be subject to limitations regarding their use in certain European member states. In some countries, the use of such devices may even be prohibited. Contact your local government for more information about these limitations.

Always follow the instructions in this manual, especially for devices that need to be assembled.

**Warning:** This is an electronic device. Incorrect or improper use may lead to severe injuries.

When connecting the device to the mains, ensure that it will not be damaged or exposed to excessive force or pressure.

A power socket is required that is close to the device and easily accessible.

Repairs must be performed by qualified ACT personnel. Never attempt to repair the device yourself. The warranty becomes void immediately if the product has undergone self-repair and/or misuse. For detailed warranty conditions, please visit our website: [www.act-connectivity.com](http://www.act-connectivity.com)

Dispose of the device appropriately. Please follow your country's regulations for the disposal of electronic equipment.

### Please carefully check the safety points below:

- Do not apply external force to the cables.
- Do not unplug the device by pulling the power cable.
- Do not place the device near heating elements.
- Do not allow the device to come into contact with water or other liquids.
- If you detect any unusual sounds, smoke, or odors, disconnect the device from the power outlet immediately.
- Do not insert sharp objects into the ventilation openings of the product.
- Do not use damaged cables (risk of electric shock).
- Keep the product out of reach of children.
- Clean the product using a soft cloth; do not use wet cloths or mops.
- Keep the power plug and outlet clean.
- Do not unplug the device from the power outlet with wet hands.
- Unplug the device when it will not be used for an extended period.
- Use the device in a well-ventilated area.

**Tip:** ACT manuals are written with great care. However, due to ongoing technological developments, a printed manual may not always contain the most recent information. If you encounter problems with the printed manual or cannot find the information you are looking for, please visit [www.act-connectivity.com](http://www.act-connectivity.com) for the most up-to-date version.

### Frequently Asked Questions (FAQ):

Consult the support section on our website [www.act-connectivity.com](http://www.act-connectivity.com) to find additional information about your product. We highly recommend checking the FAQ section first, as the answer to your question is often available there.

## Warranty Conditions

The ACT warranty applies to all ACT products. When purchasing a second-hand ACT product, the remaining warranty period is measured from the date of purchase by the original owner.

The ACT warranty applies to all ACT products and parts that are permanently connected or mounted to the product. Power supply adapters, batteries, antennas, and other accessories not directly integrated into or connected to the main product — and for which wear and tear may differ from the main product — are not covered by the ACT warranty.

Products are not covered by the warranty if they have been exposed to incorrect or improper use, external influences, or if the service parts of the product have been opened by parties other than ACT. ACT may use refurbished components for the repair or replacement of defective products.

ACT cannot be held responsible for changes in network settings made by internet providers. We cannot guarantee that an ACT networking product will continue to function when such settings are changed. ACT cannot guarantee the operation of web services, apps, or any third-party content made available through ACT products.

## When My Product Gets Defective

If your product becomes defective for reasons other than those described above, please contact your point of purchase for assistance in handling the defective product.