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› Acer 15-in-1 USB-C Docking Station ODK480 User Manual

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Acer 15-in-1 USB-C Docking Station ODK480 User Manual

Model: ODK480

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Acer 15-in-1 USB-C Docking Station (Model ODK480). This docking station is designed to expand the connectivity of your laptop or PC, enabling triple monitor support, high-speed data transfer, and efficient power delivery through a single USB-C connection.

2. PRODUCT OVERVIEW

The Acer 15-in-1 USB-C Docking Station offers extensive connectivity to enhance your workspace. Below is an overview of the device and its ports.



Image 2.1: Front and side view of the Acer 15-in-1 USB-C Docking Station.

2.1 Port Layout

15-IN-1

USB-C Universal Docking Station



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Image 2.2: Detailed diagram illustrating the 15 ports on the Acer USB-C Docking Station, including USB-C, USB 3.2, HDMI, DisplayPort, RJ45 Ethernet, Audio/Mic, and DC power input.

- **Video Outputs:** 3x HDMI 2.0 (4K@60Hz), 2x DisplayPort 1.2 (4K@60Hz)
- **USB Data Ports:** 4x USB-A 3.2 (10Gbps), 2x USB-C 3.2 (10Gbps)
- **Network:** 1x RJ45 Ethernet (1Gbps)
- **Host Connection:** 1x USB-C Port (for host connection, supports PD100W)
- **Audio:** 1x 3.5mm Audio/Mic port

- **Power Input:** 1x Input 130W DC power port

3. SETUP INSTRUCTIONS

Follow these steps to set up your Acer 15-in-1 USB-C Docking Station.

3.1 Package Contents



Image 3.1: Contents included in the Acer 15-in-1 USB-C Docking Station package, showing the docking station, USB-C to C cable, 130W power adapter, AC power cable, quick start guide, and cable holder.

Ensure all items are present:

1. Acer 15-in-1 USB-C Docking Station
2. USB-C to C Cable
3. 20V 6.5A 130W Power Adapter
4. AC Power Cable
5. Quick Start Guide
6. Cable Holder

3.2 Driver Installation (Crucial for Display Functionality)

Before connecting the docking station, it is **essential** to download and install the latest DisplayLink drivers. This driver is required for the HDMI and DisplayPort video outputs to function correctly, especially for triple monitor setups.

- Visit the official DisplayLink website to download the appropriate driver for your operating system (Windows, macOS, etc.).
- Install the driver following the on-screen instructions.
- Restart your computer after installation if prompted.

3.3 Connecting the Docking Station

1. Connect the 130W power adapter to the DC power input port on the docking station and then to a power outlet.
2. Connect one end of the provided USB-C to C cable to the host USB-C port on the docking station.
3. Connect the other end of the USB-C to C cable to a compatible USB-C port on your laptop or PC. Ensure your laptop's USB-C port supports DisplayPort Alt Mode (video transmission function) for display output.
4. Connect your external monitors to the HDMI and/or DisplayPort outputs on the docking station.
5. Connect any USB peripherals (keyboard, mouse, external drives) to the available USB-A or USB-C data ports.
6. For a wired internet connection, connect an Ethernet cable (CAT6 or higher recommended for 1Gbps) to the RJ45 port on

the docking station.

7. Connect headphones or speakers to the 3.5mm Audio/Mic port if desired.

4. OPERATING INSTRUCTIONS

4.1 Display Modes (Triple 4K@60Hz)

The docking station supports up to three 4K@60Hz external monitors simultaneously on both Windows and macOS systems. You can configure your displays in either Mirror or Extend mode.

Display Modes for Windows + mac OS



Mirror Mode Enjoy Big Screen Visual Feast for Mac/Windows



Extend Mode Handle 4 Different Tasks at Once for Mac/Windows

Image 4.1: Illustration of Mirror Mode (all displays show the same content) and Extend Mode (each display shows different content) for Windows and macOS.

- **Mirror Mode:** All connected displays (including your laptop screen) will show the same content. This is useful for presentations.
- **Extend Mode:** Each connected display can show different content, expanding your desktop workspace. This is ideal for multitasking.

To configure display settings:

- **Windows:** Right-click on the desktop, select 'Display settings', and arrange your displays.
- **macOS:** Go to 'System Settings' > 'Displays', and arrange your displays.

Triple Display Configuration Table



Image 4.2: Table detailing various triple display configurations and resolutions supported for both macOS and Windows, indicating flexible choices between HDMI and DisplayPort.

4.2 High-Speed Data Transfer

The docking station features USB-A 3.2 and USB-C 3.2 ports that support data transfer speeds of up to 10Gbps. This allows for rapid transfer of large files and efficient connectivity for high-performance peripherals.



Extremely Fast Data Transfer
Fully Charge Your Laptop in a Snap

20X
Faster than USB 2.0

USB A 3.2*4, USB C 3.2*2	10Gbps
USB 2.0	480Mbps

Image 4.3: Visual representation of 10Gbps data transfer speed, highlighting its efficiency compared to USB 2.0.

4.3 Power Delivery (PD 100W)

The included 130W power adapter ensures stable power to the docking station and connected devices. The host USB-C port provides up to 100W Power Delivery (PD) to charge your connected laptop.

High-Speed Charging

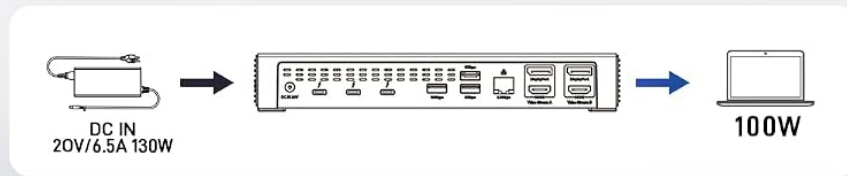


Image 4.4: Diagram showing the 130W power adapter supplying power to the docking station, which then delivers up to 100W of charging power to the connected laptop via USB-C.

4.4 Ethernet Connection

The 1000Mbps RJ45 Ethernet port provides a stable and fast-wired internet connection. For optimal performance and to achieve 1Gbps speeds, use a CAT6 or higher Ethernet cable.



Image 4.5: Close-up view of the RJ45 Ethernet port with an Ethernet cable connected, indicating a high-speed internet connection.

4.5 Audio Connection

The 3.5mm Audio/Mic port supports both audio output (for headphones/speakers) and microphone input, allowing for integrated audio solutions.

Headset Microphone

Supports Mic & Audio-out Function



Image 4.6: A headset connected to the 3.5mm Audio/Mic port on the docking station, illustrating its audio functionality.

5. COMPATIBILITY

This docking station is designed for wide compatibility with various operating systems and devices.

5.1 Supported Operating Systems

- Windows
- macOS
- Android
- Chrome OS
- Ubuntu

5.2 Compatible Devices

Includes, but is not limited to:

- MacBook Air/Pro (M1/M2/M3 and Intel-based models)
- Acer Laptops
- HP Elitebook
- Surface Pro
- Lenovo Thinkpad
- Dell XPS
- Dell Latitude
- ASUS Vivobook
- Desktops with compatible USB-C ports

Wide Compatibility

Systems



Windows



macOS



Android



Chrome OS



Ubuntu

Devices



MacBook Air/Pro



HP Elitebook



Surface Pro



Lenovo Thinkpad



Dell XPS



Acer/Spectre



Dell Latitude



ASUS Vivobook



Please Download the DisplayLink Driver Before Using the Docking Station



Image 5.1: Overview of compatible operating systems (Windows, macOS, Android, Chrome OS, Ubuntu) and devices (MacBook Air/Pro, HP Elitebook, Surface Pro, Lenovo Thinkpad, Dell XPS, Acer/Spectre, Dell Latitude, ASUS Vivobook).

5.3 USB-C Port Requirements

For full functionality, especially video output, your laptop's USB-C port must support DisplayPort Alt Mode (Video transmission function). Some USB-C ports may only support data transfer or charging.

Please check the compatibility of your USB-C port before purchasing

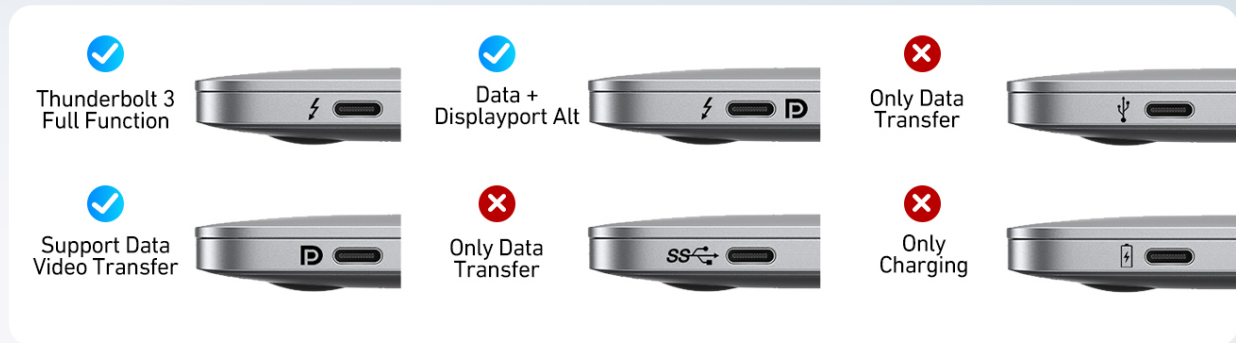


Image 5.2: Visual guide to checking USB-C port compatibility, distinguishing between full-function Thunderbolt 3, Data + DisplayPort Alt, Data Transfer only, and Charging only ports.

6. MAINTENANCE

To ensure the longevity and optimal performance of your docking station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the docking station is placed in a well-ventilated area to prevent overheating. Do not block the ventilation holes.
- **Storage:** When not in use for extended periods, disconnect the power adapter and store the device in a cool, dry place.
- **Cable Management:** Avoid bending or crimping cables excessively, as this can damage them over time.

7. TROUBLESHOOTING

If you encounter issues with your docking station, refer to the following common problems and solutions:

7.1 No Display Output / Incorrect Resolution

- **DisplayLink Driver:** Verify that the latest DisplayLink driver is installed correctly on your computer. This is the most common cause of display issues.
- **USB-C Port Compatibility:** Ensure your laptop's USB-C port supports DisplayPort Alt Mode. Refer to your laptop's specifications or manufacturer.
- **Cable Connection:** Check all HDMI/DisplayPort and USB-C cables are securely connected. Try using different cables if available.
- **Power Supply:** Confirm the docking station is receiving adequate power from the 130W power adapter. The power LED should be illuminated.
- **Monitor Input:** Ensure your monitors are set to the correct input source (HDMI 1, DisplayPort 2, etc.).
- **System Restart:** Disconnect the docking station, restart your computer, then reconnect the docking station.

7.2 Slow Data Transfer Speeds

- **USB Version:** Ensure the connected device and cable support USB 3.2 (10Gbps) for optimal speeds. Older USB 2.0 devices will operate at their maximum speed (480Mbps).
- **Port Usage:** Avoid connecting multiple high-bandwidth devices to the same USB hub simultaneously if performance is critical.

7.3 No Network Connection

- **Ethernet Cable:** Ensure the Ethernet cable is securely connected to both the docking station and your router/modem. Use a CAT6 or higher cable for 1Gbps speeds.
- **Network Settings:** Check your computer's network settings to ensure the Ethernet adapter is enabled and configured correctly.
- **Driver:** Ensure your operating system has the necessary drivers for the Ethernet adapter. These are usually installed automatically.

7.4 Laptop Not Charging

- **Power Adapter:** Confirm the 130W power adapter is correctly connected to the docking station and a working power outlet.
- **USB-C Cable:** Ensure the USB-C cable connecting the dock to your laptop supports Power Delivery. The provided cable is recommended.
- **Laptop Power Requirements:** While the dock provides up to 100W PD, some high-performance laptops may require more power directly from their original charger.

8. SPECIFICATIONS

Technical details for the Acer 15-in-1 USB-C Docking Station (Model ODK480).



Image 8.1: Diagram showing the dimensions of the docking station: 8.8 inches (length), 3.5 inches (width), and 1.1 inches (height).

Feature	Detail
Model Number	ODK480
Product Dimensions	8.6 x 3.5 x 1 inches (21.8 x 8.9 x 2.5 cm)
Item Weight	12.8 ounces (0.36 kg)
Number of Ports	15
Video Outputs	3x HDMI 2.0 (4K@60Hz), 2x DisplayPort 1.2 (4K@60Hz)
USB Data Ports	4x USB-A 3.2 (10Gbps), 2x USB-C 3.2 (10Gbps)
Ethernet	1x RJ45 (1Gbps)
Host Connection	1x USB-C (PD 100W)

Audio	1x 3.5mm Audio/Mic
Power Input	130W DC (20V/6.5A)
Color	Black
Manufacturer	Acer

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Acer 15-in-1 USB-C Docking Station typically comes with a 2-year warranty. Please refer to the warranty card included in your package or visit the Acer Gadget official website for detailed warranty terms and conditions.

9.2 Technical Support

For technical assistance, driver downloads, or further inquiries, please visit the official Acer Gadget support website. Ensure you have your product model number (ODK480) and purchase information ready when contacting support.

Acer Gadget Website: www.acer-gadget-store-global.com