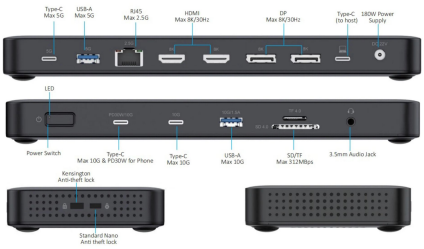
Bull Creek Tech

BCT3500-140W DisplayPort 2.1 8K Quad Display Docking Station/ USB-C DP2.1, Quad Display, 140W PD, 2.5G Ethernet Docking Station

SKU: BCT3500-140W



USB-C MST docking station featuring DisplayPort 2.1 Alt Mode with support for up to quad 4K@60Hz or single 8K@30Hz displays. Delivers up to 140W Power Delivery to the host laptop and 30W downstream USB-C charging. Includes 2.5G Ethernet, SD/TF 4.0 card reader, multiple USB-A and USB-C data ports up to 10Gbps, and 3.5mm combo audio. UPC: 810189122215

- **DisplayPort 2.1 Alt Mode:** Latest DP2.1 IC solution supporting UHBR20 data rates — up to quad 4K@60Hz displays on Windows (with DSC) or single 8K@30Hz output via HDMI or DisplayPort.
- **140W Power Delivery:** External 180W power supply delivers up to 140W to your host laptop and up to 30W downstream charging for USB-C mobile devices.
- **Extensive Connectivity:** 14 ports including 2x HDMI (8K/30Hz), 2x DisplayPort (8K/30Hz), 2x USB-C 10Gbps, 1x USB-C 5Gbps, 1x USB-A 10Gbps, 1x USB-A 5Gbps, SD/TF 4.0 (312 MB/s), 2.5G Ethernet, and 3.5mm combo audio (192KHz).
- **Wide Compatibility:** Works with Thunderbolt 4, Thunderbolt 3, and full-featured USB-C laptops. Supports Windows 10/11, macOS, ChromeOS, Android, and Ubuntu Linux.
- **Multiple Display Modes:** Windows: single 8K, dual 8K+4K@120Hz, triple 4K@120Hz+4K@60Hz×2, or quad 4K@60Hz×4 with different content. macOS: up to quad 4K@60Hz mirrored.

Transform your workspace with the Bull Creek Technologies BCT3500-140W, a 14-in-1 USB-C docking station built on the latest DisplayPort 2.1 Alt Mode technology. Designed for power users who demand maximum display output and comprehensive connectivity from a single USB-C connection.

With support for up to four simultaneous 4K@60Hz displays (on compatible Windows systems with UHBR20 and DSC), or a single stunning 8K@30Hz output, this dock eliminates the need for multiple adapters and dongles. The integrated 180W power supply delivers up to 140W of pass-through charging to your laptop while reserving 30W for downstream USB-C device charging.

Five high-speed USB data ports (including two USB-C 10Gbps ports) handle external storage and peripherals with ease, while the 2.5 Gigabit Ethernet port provides ultra-fast, reliable wired networking. The SD/TF 4.0 card reader supports UHS-II speeds up to 312 MB/s, and the 3.5mm combo audio jack supports sample rates up to 192KHz for professional audio applications.

Compatible with Thunderbolt 4, Thunderbolt 3, and full-featured USB-C laptops running Windows 10/11, macOS, ChromeOS, Android, or Ubuntu Linux. Number of Monitors supported depends on host system.

Technical Specifications

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Upstream: USB-C Female (DP2.1 Alt Mode, max 20Gbps/lane)

Video Outputs:
2x HDMI — max 7680×4320 @ 30Hz, HDR10+, HDCP 1.4/2.3
2x DisplayPort — max 7680×4320 @ 30Hz, HDR10+, HDCP 1.4/2.3, DP++ compatible

USB Data Ports:
2x USB-C 10Gbps (1 with 30W PD charging, 1 with 5V/1.5A)
1x USB-C 5Gbps (5V/1.5A)
1x USB-A 10Gbps (5V/1.5A) - BC 1.2 Supported
1x USB-A 5Gbps (5V/900mA)

Networking: RJ45 Gigabit Ethernet — 10M/100M/1000M/2.5G, Wake-on-LAN/WAN, IPv6 support, MAC address pass through

Card Reader: SD/TF 4.0 (UHS-II) — up to 312 MB/s, simultaneous dual-slot

Audio: 3.5mm combo jack — 192KHz/24-bit DAC, 48KHz/16-bit ADC, CTIA/OMTP auto-detection. Box includes Audio Y-Splitter

Power: DC 180W input, max 140W to host, 40W dedicated to dock operation. PD 3.1 supports the following to host: 5V/3A,9V/3A,15V/3A,20V/5A.28V/5A

Supported DP Rates: RBR, HBR, HBR2, HBR3, UHBR10, UHBR13.5, UHBR20

Included USB-C Cable: 1 Meter, USB4 40Gbps, Male to Male with DP Alt Mode 2.1 Support

Made in Vietnam

Warranty

1 year limited warranty

Environmental

Operating Temperature: 0°C to +45°C
Operating Humidity: 10% to 85% RH (no condensation)
Storage Temperature: -10°C to +70°C
Storage Humidity: 5% to 90% RH (no condensation)

Dimensions & Weights

Weight: 361g (0.80 lbs)
Dimensions (L×W×H): 225 × 85 × 22 mm (8.86 × 3.35 × 0.87 in)
Box includes: BCT-3500-140W Dock, 1 Meter USB-C to USB-C cable, Y Audio Splitter, and Power Supply

FAQ

Accessibility
Accessibility
Bull Creek Technologies designs the BCT3500-140W so that it can be installed and used without vision, without hearing, without speech, and without fine motor control. The features below are built into the dock, and allow it to work with assistive

technology. A full Accessibility Conformance Report (VPAT® 2.5Rev, Revised Section 508 edition) is available on request from support@bullcreektech.com.

Using the dock without vision

- Every connector is an industry-standard type that can be located and seated by touch, and the connector types are physically distinct from one another.
- USB-C connectors are reversible. There is no wrong orientation and nothing to line up visually.
- No port uses a thumbscrew, a latch, or a locking mechanism.
- The SD and microSD slots accept a card only in the correct orientation, and the notched corner of the card is discernible by touch before insertion.
- There are no setup screens, prompts, or timed steps. Once the dock is connected, the host computer detects everything attached to it.

The status indicator, and the same information without vision

The dock has a single power and status indicator, which lights when the dock has power and a working connection to the host. This indicator is visual only. The same information is always available from the host computer, where it can be read with a screen reader, magnifier, or other assistive technology:

- **Power and connection:** the displays, network adapter, and audio device the dock provides appear in the computer's system settings.
- **Charging:** the computer's own battery indicator reports that it is charging from the dock.
- **Storage and cards:** inserted memory cards and attached drives appear in the file manager.

The indicator on the dock conveys nothing that cannot also be obtained from the host computer.

Contrast, labels, and color

- Port markings and labels are light-colored markings on a dark housing and contrast with the surface behind them.
- Color is never the only way information is given. Every port is identified by a printed icon or text label and by the physical shape of its connector, in addition to any color used.
- The status indicator conveys its state by whether it is lit, not by its hue.

Operating the dock with limited strength, reach, or dexterity

- Every operation — connecting the host cable, attaching peripherals, inserting memory cards, and using the control — is performed with one hand and requires no tight grasping, pinching, or twisting of the wrist.
- The force needed to operate the control is well below 5 pounds (22.2 N).
- The dock weighs 361 g (0.80 lbs) and is not fixed in place. It can be positioned wherever it is comfortably within reach, and the supplied 1 m host cable allows the computer to sit some distance away.
- Nothing on the dock requires a timed response.

Connecting assistive technology through the dock

Every data connection uses an industry-standard, non-proprietary format — USB Type-C, USB Type-A, HDMI, DisplayPort, RJ45 Ethernet, SD and microSD, and a 3.5mm CTIA/OMTP combo audio jack — so assistive technology can be connected to the host computer through the dock, including:

- Alternative keyboards, alternative pointing devices, trackballs, head pointers, and switch interfaces, using the USB-A and

USB-C ports.
- Refreshable braille displays and braille notetakers, using the USB ports.
- Headsets, assistive listening devices, and hearing-aid streamers, using the 3.5mm combo jack. The jack detects CTIA and OMTP wiring automatically, and the supplied Y-splitter separates the headphone and microphone connections for equipment that needs them apart.

The dock installs no software and no drivers of its own, so assistive technology already set up on the host computer continues to work exactly as it does when the same equipment is plugged directly into the computer.

Displays, captions, and audio description

- The dock passes video and audio through without altering them. Closed captions, audio description tracks, and accessibility information carried in the signal reach the monitor and headphones unchanged.
- Operating system accessibility settings — screen magnification, high contrast and color filters, larger text and pointers, and caption styling — are applied by the computer and work normally on monitors connected through the dock.
- Caption and volume controls remain on the host computer and in the application in use. The dock does not intercept them.

No software to install

The BCT3500-140W requires no application, configuration utility, or account, and works as soon as it is connected. Where a device driver is needed, for example for the Ethernet adapter, it is supplied and maintained by the operating system or the silicon vendor and has no user interface of its own.

Getting help

- Email support@bullcreektech.com. Email is available to every customer and does not require the use of voice telephony.
- Telephone support accepts calls placed through the Telecommunications Relay Service. Dial 711 to reach TRS in the United States.
- If you need this documentation in a different format, ask us and we will provide one.

Resolutions

What resolutions are supported by the Dock? **Windows Resolutions**

DP2.1 Host 2 lane 20G , with DSC 3:1	
Number of Displays	Max resolution
1	8K/60Hz（YCC420）
2	8K/30Hz x1 + 4K/120Hz x1
3	4K/120Hz x1 + 4K/60Hz x2
4	4K/60Hz x4

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DP2.1 Host 2 lane 13.5G, with DSC 3:1	
Number of Displays	Max resolution
1	8K/30Hz
2	8K/30Hz x1 + 4K/60Hz x1
3	4K/60Hz x3
4	4K/60Hz x3 +4K/30Hz x1
DP2.1 Host 2 lane 10G, with DSC 3:1	
Number of Displays	Max resolution
1	8K/30Hz
2	8K/30Hz x1 + 4K/60Hz x1
3	4K/60Hz x3
4	4K/60Hz x2 +4K/30Hz x2
DP1.4 Host 2 lane HBR3, with DSC 3:1	
Number of Displays	Max resolution
1	8K/30Hz
2	4K/60Hz x2
3	4K/60Hz x1 + 4K/30Hz x2

4	4K/30Hz x4
DP1.4 Host 2 lane HBR3 no DSC	
Number of Displays	Max resolution
1	4K/60Hz
2	4K/30Hz x2
3	4K/30Hz x1 + 1080P/60Hz x2
4	1080P/60Hz x4
DP1.4 Host 2 lane HBR2 no DSC	
Number of Displays	Max resolution
1	4K/30Hz
2	1080P/60Hz x2
3	1080P/60Hz x1 + 720P/60Hz x2
4	720P/60Hz x4

MAC Resolutions

Mirror mode for up to 4 monitors. In Extended mode, only one independent external screen is supported with SST (MAC). Theoretically, the maximum resolution is 8K at 30Hz. The actual resolution depends on the System and the monitor.