

SUPERBOOSTER® USB EXTENDER

Superbooster® 1-Port USB over Cat6a Box to Box Extender Kit - USB 3.2 Gen1 (5Gbps)

Conquer USB length limitations

C2G Superbooster USB Extenders deliver reliable USB signal transmission for USB devices, allowing devices such as cameras, interactive whiteboards and printers to be placed at greater distances from the host computer.

Affordable

Your USB extender shouldn't cost more than your camera. C2G's new USB 3.2 extenders use chipset technology that is more economical than other USB 3.2 extenders currently on the market.

Tested and proven

What's more, the C2G Superbooster USB Extender has been tested to be compatible with industry-leading video conferencing cameras. Not only does this testing ensure reliability and deployment confidence for AV integrators, it saves valuable time as well.

Performance

C2G's Superbooster® USB Extender provides reliable USB data extension from a computer to a USB device up to 328 feet (100m) over a Cat6a U/FTP or F/FTP network cable—making it an ideal solution for conference rooms, command centers, classrooms, auditoriums and medical facilities.

This plug-and-play solution consists of one USB 3.2 Gen1 Extender Box (transmitter), one USB 3.2 Gen1 Extender Box (receiver), 24V/1A multinational power supply with conversion plug, and two mounting brackets.



C2G54266



Front



Back

ITEM DESCRIPTION

C2G54266 Superbooster® 1-Port USB over Cat6a Box to Box Extender Kit - USB 3.2 Gen1 (5Gbps)

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FEATURES

- Tested and proven to support leading PTZ cameras at 1080p or 4K resolutions depending on the camera
- Extends a USB 3.2 Gen 1 data signal up to 328ft (100m) over Cat6a U/FTP or F/FTP cable
- USB 3.2 connectivity with data transfer rates up to 5Gbps
- Backwards compatible with USB 2.0 and 1.1
- Supports bi-directional 24V PoC allowing you to power from the receiver end only
- Plug and play - no drivers required
- Perfect for extending cameras, white boards, storage drives, and other high bandwidth USB devices
- Backed by a 5-year warranty



C2G54266

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COMPATIBILITY TEST

Cameras were tested with C2G54266, C2G54267, C2G54268 and C2G54269.

Cabling: 100m Cat6a U/FTP Device \ Source	Acer Spin 714 Chromebook	Macbook Pro M3	Macbook Air 2019	Microsoft Surface Laptop 7	Dell Latitude 5410	HP Spectre x360 2023	Lenovo ThinkPad X1 Carbon Gen 9	Asus Vivobook	Microsoft Surface Laptop 4	Dell Inspiron 14 7430
Vaddio RoboSHOT 30E-M	pass ³	pass	pass	pass ⁶	pass	pass	pass	pass	pass	pass ⁸
Bose Videobar VB1	pass ³	pass	pass	pass	pass ⁷	pass	pass	pass	pass	pass
Logitech Rally Camera	pass	pass	pass	pass	pass	pass ⁷	pass	pass	pass ⁷	pass
Owl Labs Meeting Owl 3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass ⁸
Polycorn Studio Camera	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
AVer CAM550	N/A ¹	pass	pass	pass	pass	pass	pass	pass	pass ⁸	pass
Avaya RC100	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
Perrix USB-C Keyboard	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
Kingston SSD	N/A ²	pass	pass	pass	pass	pass	pass	pass	pass	pass
SanDisk SSD	N/A ²	pass	pass ⁴	pass	pass	pass	pass	pass ⁵	pass ⁵	pass ⁵

*We will test your camera if it's not on this list! Contact us to make arrangements.

KEY NOTES

- Incompatible with passive cables.
- ChromeOS does not offer an SSD speed test app, but files will still be accessible.
- Limited to 1080p 30Hz.
- Slower speeds after waking from sleep. Restart of the computer may be needed to regain full speeds.
- Some speeds are slower than expected, but the device is still functional.
- Occasional sensitivity to the movement of the category cable may cause the HDBT link to briefly disconnect and then reconnect after a few seconds. This issue is typically minimized by using a category cable that is 60 meters or shorter in length, as the problem is rare at these distances.
- Resolution is occasionally limited to below its maximum; typically re-plugging the cable on the PC or restarting the PC will fix.
- The camera app software may occasionally encounter issues like the video feed not displaying or exhibiting lag. Restarting the application will typically resolve these issues when they occur.

GENERAL NOTES

- Dropouts can occur while stressing the system (running multiple cameras at max resolution and external SSD speedtest simultaneously) but all devices work individually
- Cameras are tested at their maximum resolution and framerate
- USB SSD storage devices should exceed 350 MB/s for reliable performance

Key	
	Pass
	Failure
	Intermittent Failure
	Intermittent Failure; Less Pronounced

HOW TESTS WERE CONDUCTED

Source->3.3ft (1m) C-C Cable or 10ft (3m) A-C Cable->USB 3.2 Extender TX->328ft (100m) Cat6a U/FTP->RX->Device

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SPECIFICATIONS

		C2G54266
TECHNICAL SPECIFICATIONS	USB Protocol	USB 3.2 Gen 1. Backwards compatible to USB 2.0 and 1.1
	Max Data Rate	Up to 5Gbps
	Number of Tiers Occupied	2
	Power Supply	Input: AC 100~240V 50/60Hz Output: DC 24V/1A
	Power Consumption	PoC Power Supply: 13.2W (max)
PHYSICAL SPECIFICATIONS	Range/Distance	Cat6a (U/FTP or F/FTP) cable: Up to 328ft (100m)
	Operating Temperature	0°C to 40°C (32°F to 104°F)
	Storage Temperature	-20°C to 60°C (-4°F to 140°F)
	Relative Humidity	20 to 90% RH (non-condensing)
PHYSICAL CHARACTERISTICS	Dimensions (HxWxD)	Transmitter: 1.10 x 2.87 x 3.27 in (27.9 x 72.9 x 83mm) Receiver: 1.10 x 2.87 x 3.27 in (27.9 x 72.9 x 83mm)
	Material	Metal
	Color	Black
	Regulatory Approvals	FCC; UKCA; CE marked
RECOMMENDED CABLES	Supported USB Cable Distance	Up to 5ft (1.5m) from computer to transmitter and 5ft (1.5m) from receiver to device
	Supported Network Cable	Use Cat6a U/FTP or F/FTP cable for data and power transfer
PORTS	Transmitter	Input: 1x DATA [USB-C Host, 24-pin female] Output: 1x HDBT-USB3 [RJ45 Connector, 24V PoC] Control: 1x SERVICE [USB-C, FW Update Port]
	Receiver	Input: 1x HDBT-USB3 [RJ45 Connector, 24V PoC] Output: 1x DATA [USB-C Device, 24-pin female] Control: 1x SERVICE [USB-C, FW Update Port]



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BEST PRACTICES

Please follow these recommendations to achieve best performance from your C2G54266 Superbooster 4-Port USB Extender.

Category Cables

For best performance, use 295 ft (90m) or shorter Cat6a F/FTP cable.

- U/FTP cable can also be used, but may not perform as well, particularly at maximum distances
- Performance using Cat6a cables with other types of shielding, Cat6, and Cat5e cannot be guaranteed

At the full 328 ft (100m) distance, there could be intermittent but rare occurrences of USB link disconnects that cannot be replicated reliably.

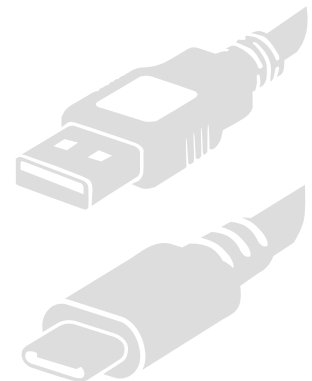
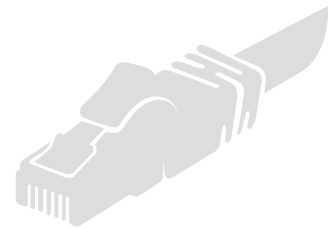
- When this does happen, the devices reconnect automatically

For best link stability at long lengths, the transmitter and receiver should be placed in a minimal vibration environment.

- It is recommended that you stabilize the devices using the mounting ears

USB Cables

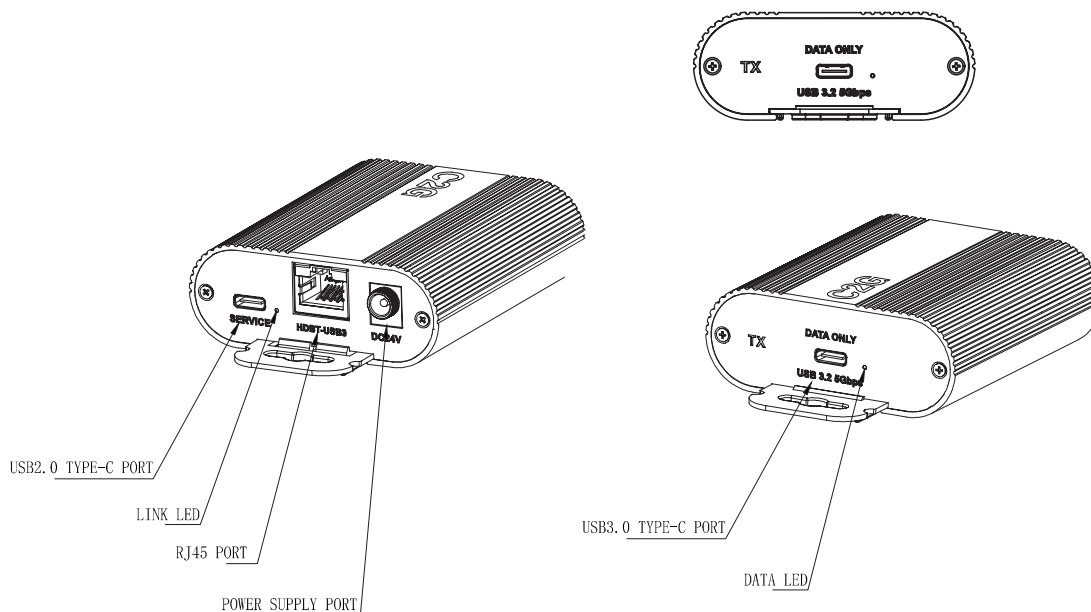
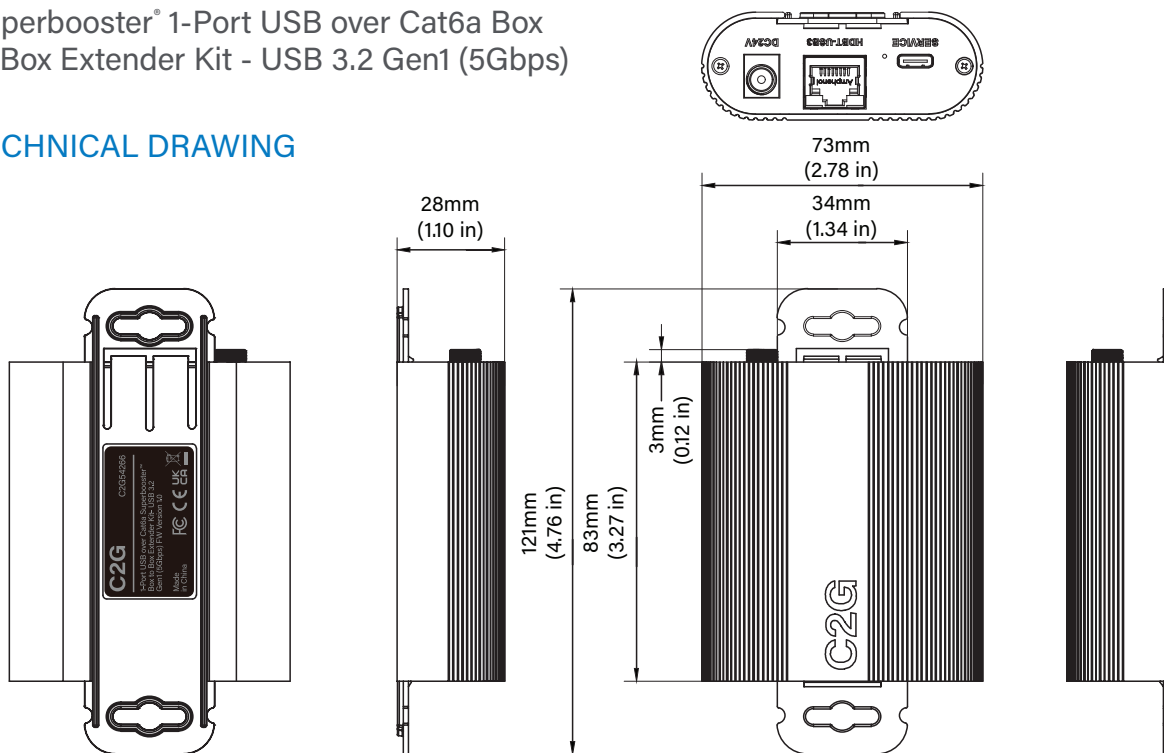
- Recommended max distance of USB cables used on the transmitter or receiver side is 6 ft (1.8m)
- USB cable from the host to the transmitter can be an A-B or a C-B cable
 - If you experience any performance issues, please ensure you are using a USB-IF certified cable



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TECHNICAL DRAWING



LEGRAND | AV COMMERCIAL BRANDS

C2G | Chief | Da-Lite | Luxul | Middle Atlantic | Vaddio | Wiremold

SIMPLIFIED CONNECTIVITY

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