

# SUPERBOOSTER® USB EXTENDER

## Superbooster® 1-Port USB over Cat6a Wall Plate 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, this 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 Wall Plate (transmitter), one USB 3.2 Gen1 Extender Box (receiver), 24V/1A multinational power supply with conversion plug, one 2-pin 3.5mm Phoenix connector (male), two machine screws, and one mounting bracket.



C2G54267



Front



Back

## ITEM DESCRIPTION

C2G54267 Superbooster® 1-Port USB over Cat6a Wall Plate to Box Extender Kit - USB 3.2 Gen1 (5Gbps)

### Optional Accessories

C2G98038 Nickel Wall Plate and Face Plate for USB Camera Extender

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Superbooster<sup>®</sup> 1-Port USB over Cat6a Box  
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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



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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 <sup>3</sup>        | pass           | pass              | pass <sup>6</sup>          | pass               | pass                 | pass                            | pass              | pass                       | pass <sup>8</sup>     |
| Bose Videobar VB1                         | pass <sup>3</sup>        | pass           | pass              | pass                       | pass <sup>7</sup>  | pass                 | pass                            | pass              | pass                       | pass                  |
| Logitech Rally Camera                     | pass                     | pass           | pass              | pass                       | pass               | pass <sup>7</sup>    | pass                            | pass              | pass <sup>7</sup>          | pass                  |
| Owl Labs Meeting Owl 3                    | pass                     | pass           | pass              | pass                       | pass               | pass                 | pass                            | pass              | pass                       | pass <sup>8</sup>     |
| Polycorn Studio Camera                    | pass                     | pass           | pass              | pass                       | pass               | pass                 | pass                            | pass              | pass                       | pass                  |
| AVer CAM550                               | N/A <sup>1</sup>         | pass           | pass              | pass                       | pass               | pass                 | pass                            | pass              | pass <sup>8</sup>          | 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 <sup>2</sup>         | pass           | pass              | pass                       | pass               | pass                 | pass                            | pass              | pass                       | pass                  |
| SanDisk SSD                               | N/A <sup>2</sup>         | pass           | pass <sup>4</sup> | pass                       | pass               | pass                 | pass                            | pass <sup>5</sup> | pass <sup>5</sup>          | pass <sup>5</sup>     |

\*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                                  | Pass                                  |
| Failure                               | Failure                               |
| Intermittent Failure                  | Intermittent Failure                  |
| Intermittent Failure; Less Pronounced | 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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Superbooster® 1-Port USB over Cat6a Wall Plate  
to Box Extender Kit - USB 3.2 Gen1 (5Gbps)

## SPECIFICATIONS

|                          |                              | C2G54267  |
|--------------------------|------------------------------|---|
| 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<br>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)           | Receiver: 1.10 x 2.87 x 3.27 in (27.9 x 72.9 x 83mm)<br>Transmitter: 4.19 x 1.73 x 1.51 in (106.5 x 44 x 38.3mm)                              |
|                          | Material                     | Transmitter: Plastic front, metal rear<br>Receiver: Metal   |
|                          | Color                        | Transmitter: White front, grey rear<br>Receiver: Black  |
|                          | Weight                       | Transmitter: 0.29 lbs (131.5g)<br>Receiver: 0.25 lbs (113.4g)   |
|                          | Regulatory Approvals         | FCC; UKCA; CE marked; Conforms to 2011/65/EU ROHS 2   |
| 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]<br>Output: 1x HDBT-USB3 [RJ45 Connector, 24V PoC]<br>Control: 1x SERVICE [USB-C, FW Update Port]   |
|                          | Receiver                     | Input: 1x HDBT-USB3 [RJ45 Connector, 24V PoC]<br>Output: 1x DATA [USB-C Device, 24-pin female]<br>Control: 1x SERVICE [USB-C, FW Update Port] |



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## BEST PRACTICES

Please follow these recommendations to achieve best performance from your C2G54267 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.

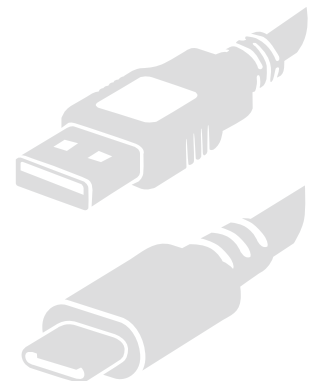
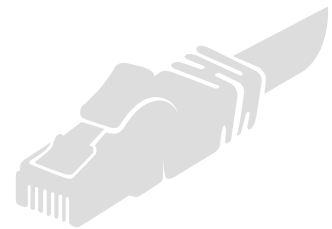
- When this does happen, the devices reconnect automatically

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

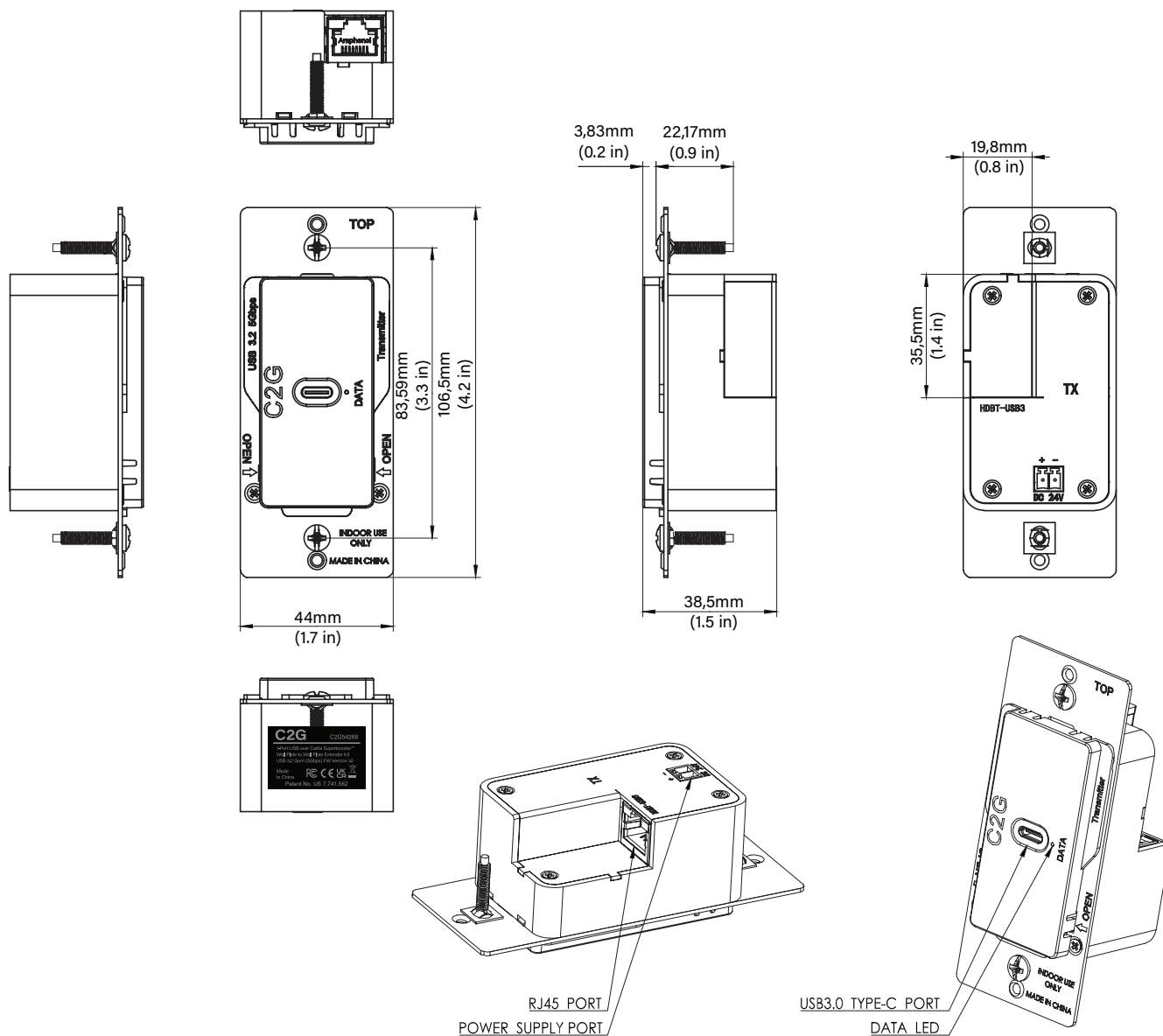
- Recommended max distance of USB cables used on the transmitter or receiver side is 6 ft (1.8m)
- USB cable from the host to the transmitter can be an A-B or a C-B cable
  - If you experience any performance issues, please ensure you are using a USB-IF certified cable



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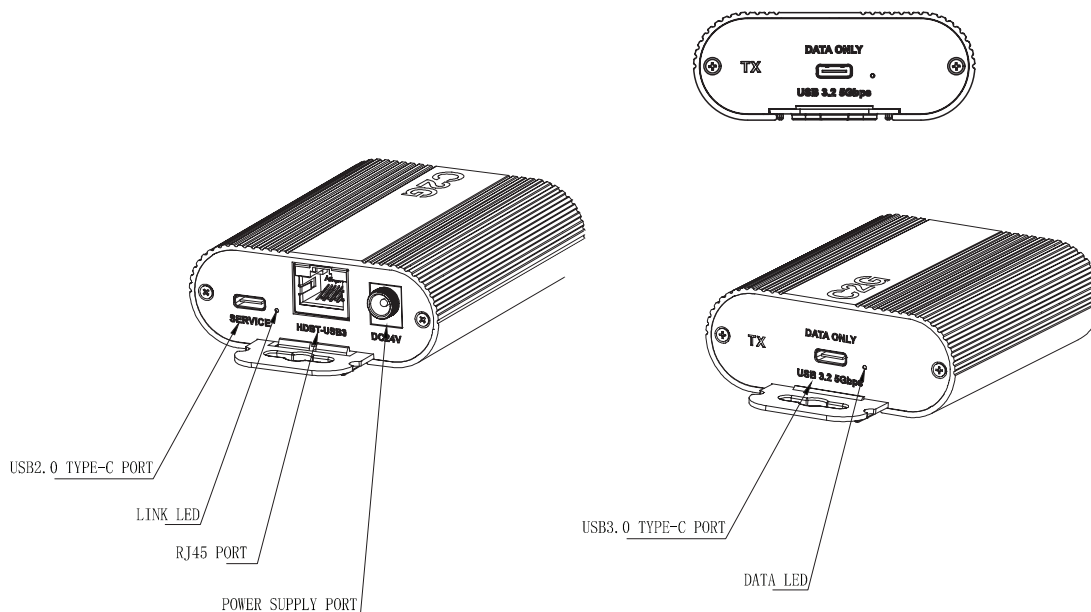
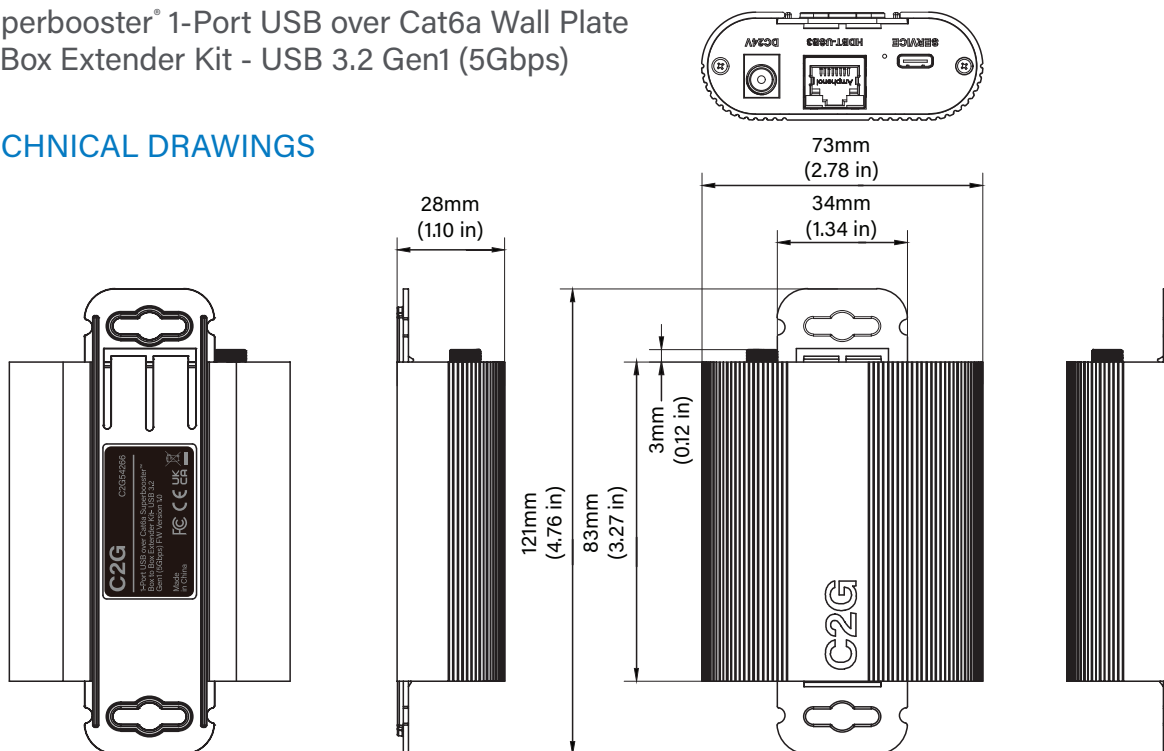
## TECHNICAL DRAWINGS



# SUPERBOOSTER® USB EXTENDER

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## TECHNICAL DRAWINGS



LEGRAND | AV COMMERCIAL BRANDS

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

### SIMPLIFIED CONNECTIVITY

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