# SUPERBOOSTER®
# USB EXTENDER

## Superbooster® 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps)

C2G's Superbooster 4-Port USB over Cat6a Extender Kit – USB 3.2 Gen 1 (5Gbps) was designed to extend data from USB 3.2, 2.0 and 1.1 devices simultaneously up to 328 feet (100m) over a single Cat6a cable, making it a perfect solution for USB 3.2 conferencing cameras, interactive white boards, security and monitoring, remote storage, and/or any other USB 3, 2 and 1 device.

No software drivers are required, making installation quick and easy with true plug and play convenience. Simply connect the Transmitter to the source computer, extend with a single category cable, and connect the Receiver to as many as four USB devices.

This Superbooster 4-Port Extender Kit provides the ability to connect USB 3.2 Gen 1 (5 Gbps) device types and is backwards compatible to USB 2.0 and 1.1 across a point-to-point connection.

**Tested and Proven**
This C2G Superbooster USB Extender has undergone rigorous compatibility testing with industry-leading video conferencing cameras, as well as solid state drives, docks, keyboards, mice and flash drives—ensuring total reliability and deployment confidence, plus saving valuable time for AV integrators as well.

C2G54265 Receiver
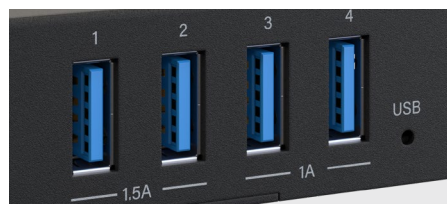
C2G54265 Transmitter

| ITEM | DESCRIPTION |
|---|---|
| C2G54265 | Superbooster® 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps) |

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Superbooster® 4-Port USB over Cat6a Extender Kit
- USB 3.2 Gen1 (5Gbps)

## FEATURES

- Tested and proven to support leading video conferencing cameras, solid state drives, docks, keyboards, mice and flash drives

- Extension of USB 3.2 data up to 328 ft (100m) over Cat6a cable

- USB 3.2 connectivity with data transfer rate up to 5Gbps

- Backwards compatible with USB 2.0 and 1.1

- Support RS-232 pass-through and FSYNC GPIO pass-through (for industry camera use)

- Supports bi-directional 24V PoC

- Plug and play - no drivers required

- Perfect for extending cameras, white boards, storage drives, and other high bandwidth USB devices

C2G54265

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## COMPATIBILITY TEST

Devices were tested with C2G54265 - Superbooster 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps).

| | Device/Source | Model | Dell Latitude 5500 | Lenovo ThinkPad T14 | HP Spectre x360 2021 | Windows Surface Laptop 4 | CTL Chromebook | Apple Macbook Pro M1 (A to C adapter) |
|---|---|---|---|---|---|---|---|---|
| **Cameras** | AVAYA RC100 | 700515495 Rev:A02 | Pass | Pass | Pass | Pass | Pass | Pass |
| | Aver Cam550 | COMCAM550 | Pass | Pass | Pass | Pass | Pass | Pass[4] |
| | AVer TR333V2 | PATR333V2 | Pass | Pass | Pass | Pass | N/A | Pass |
| | Huddly IQ | H1-MBLK E44A00355 | Pass | Pass | Pass | Pass | Pass | Pass |
| | Logitech Brio | V-U0040 | Pass | Pass | Pass | Pass | Pass | Pass[5] |
| | Logitech Meetup | V-R0007 | Pass | Pass | Pass | Pass | Pass | Pass |
| | Logitech Rally Bar | VR-0019 | Pass | Pass | Pass | Pass[3] | Pass | Pass |
| | Owl Labs Meeting Owl 3 | MTW300-1000 | Pass[2] | Pass | Pass[2] | Pass | Pass | Pass |
| | Polycom Poly Studio 4K | P009 | Pass | Pass | Pass | Pass | Pass | Pass |
| **Hard Drives/ U Drives** | Kingston Solid State Drive | XS2000 | Pass | Pass | Pass | Pass | Pass | Pass |
| | PNY USB 2.0 Flash Drive | P-FD32GX5ATT4-EF | Pass | Pass | Pass | Pass | Pass | Pass |
| | Rocket XTRM-Q Solid State Drive | SB-XTMQ-1TB | Pass | Pass | N/A | Pass | Pass | Pass |
| | Sandisk Solid State Drive | SDSSDE81-1T00-G25 | Pass[1] | Pass | Pass | Pass | Pass | Pass |
| **Docks/Hubs** | C2G Docking station + Logitech mouse + San Disk Flash Drive | C2G54535 + M185 + SDSSDE81-1T00-G25 | Pass[1] | Pass | Pass | Pass | Pass | Pass |
| | C2G USB Hub + Logitech mouse | C2G54461 + M185 | Pass | Pass | Pass | Pass | Pass | Pass |
| | Logitech USB 2.0 Mouse | M185 | Pass | Pass | Pass | Pass | Pass | Pass |
| | xbox Core controller | M1142084-007 | Pass | Pass | Pass | Pass | Pass | N/A |

**FOOTNOTES ON TEST RESULTS**

1. 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 link will automatically reconnect. Alternatively, using a shorter cable will also resolve the issue.
2. Occasional artificating not seen with passive cable.
3. Camera stopped working between shutdown test. Recovered after a few minutes.
4. After power cycling the Aver camera, it takes a few seconds to re-detect the camera, then works without an issue.
5. Did not connect at USB 3.2 speeds at first. Power cycle resolved the issue.

| Key | |
|---|---|
| | Pass |
| | Failure |
| | Intermittent Failure |
| | Intermittent Failure; Less Pronounced |

**HOW TESTS WERE CONDUCTED**

Source->3.3ft (1m) B-A Cable or 10ft (3m) B-C Cable->C2G54265 USB 3.2 Extender TX->328ft (100m) Cat6a U/FTP->RX-> Device (powered at rx) (1)

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## COMPATIBILITY TEST

Devices were tested with C2G54265 - Superbooster 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps).

| | Device/Source | Model | Dell Inspiron 14 | Microsoft Surface Laptop 4 AMD | MacBook Air A1932 | Asus Vivobook 14 Intel | Samsung Chromebook Plus V2 |
|---|---|---|---|---|---|---|---|
| Keyboards/Mice/SSD/Flash Drive | Kingston Hard Drive | xs2000 | Pass | Pass | Pass | Pass | Pass |
| | SanDisk Hard Drive | SDSSDE81-1T00 | Pass | Pass | Pass | Pass | Pass |
| | SanDisk U Disk | SDDDC3 | Pass | Pass | Pass | Pass | Pass[6] |
| | SanDisk U Disk | SDCZ74 | Pass | Pass | Pass | Pass | Pass |
| | Corsair Keyboard | RGP0057 | Pass | Pass | Pass[7] | Pass[8] | Pass |
| | Logitech Keyboard | Y-U0009 | Pass | Pass | Pass | Pass | Pass |
| | A4TECH Wireless Keyboard/Mouse | FG1010 Combo | Pass | Pass | Pass | Pass | Pass |
| | Apple Mouse | A1152 | Pass | Pass | Pass | Pass | Pass |
| | DELL Wireless Keyboard/Mouse | KM117 Combo | Pass | Pass | Pass | Pass[9] | Pass |
| | HP Wireless Keyboard/Mouse | CS10 Combo | Pass | Pass | Pass | Pass | Pass |
| | Logitech Wireless Keyboard/Mouse | MK270 Combo | Pass | Pass | Pass | Pass[9] | Pass |
| | RAPOO Wireless Keyboard/Mouse | X336M Combo | Pass | Pass | Pass | Pass | Pass |
| | Razer Mouse | RZ01-0321 | Pass | Pass | Pass | Pass | Pass |

**FOOTNOTES ON TEST RESULTS**

6. During hotplug testing, the devices were not detected 7 out of 50 times. Unplugging the host device or RJ45 cable resolved the issue.
7. During hotplug testing, the USB Keyboard/Mouse could not wake up the laptop 4 out of 50 times.  Rebooting the laptop resolved the issue.
8. During hotplug testing, the devices were not dected 6 out of 50 times. Unplugging the host device or RJ45 cable resolved the issue.
9. During hotplug testing, the devices were not detected 7 out of 50 times. Rebooting the laptop resolved the issue.

| Key | |
|---|---|
| | Pass |
| | Failure |
| | Intermittent Failure |
| | Intermittent Failure; Less Pronounced |

**HOW TESTS WERE CONDUCTED**

Source->3.3ft (1m) B-A Cable or 10ft (3m) B-C  Cable->C2G54265 USB 3.2 Extender TX->295ft (90m) Cat6a U/FTP or 328ft (100m) F/FTP->RX->Device (powered at rx)

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## BEST PRACTICES

Please follow these recommendations to achieve best performance from your C2G54265 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
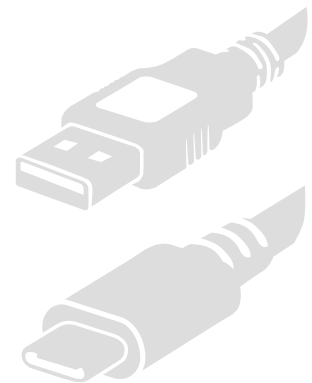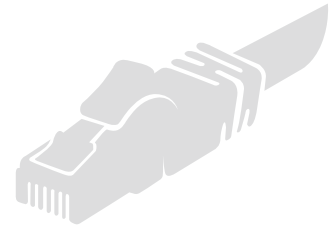
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## SPECIFICATIONS

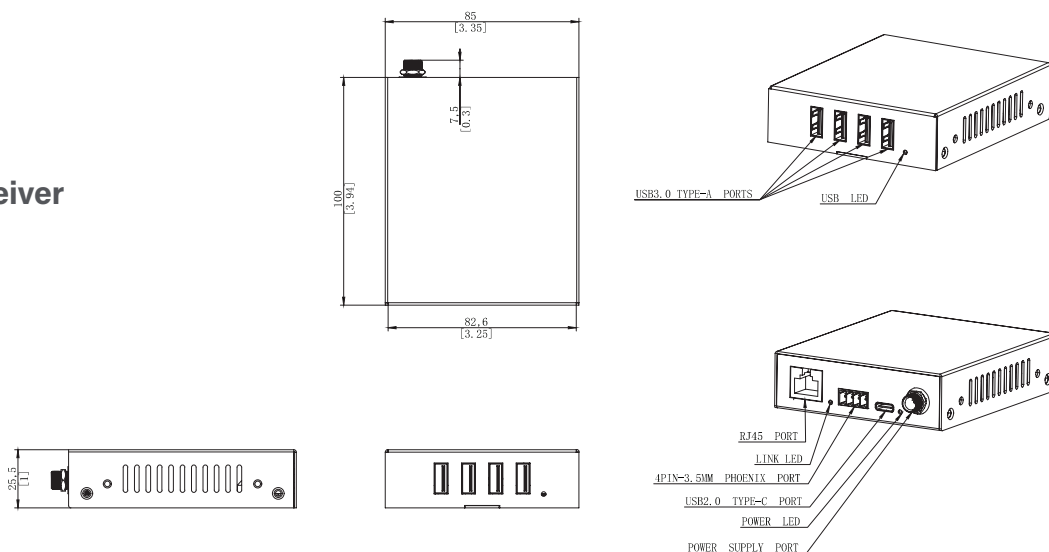| | | C2G54265 |
|---|---|---|
| **PHYSICAL SPECIFICATIONS** | Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| | Storage Temperature | -20°C to 60°C (-4°F to 140°F) |
| | Storage Humidity | 20% to 90% relative humidity, non-condensing |
| **PHYSICAL CHARACTERISTICS** | Regulatory Approvals | Product CE/FCC, RoHS, and UKCA certified |
| | Dimensions (HxWxD) | **Transmitter:** 1 x 3.35 x 3.94in (25.5 x 85 x 100mm) **Receiver:** 1 x 3.35 x 3.94in (25.5 x 85 x 100mm) |
| | Material | Metal |
| | Housing Color | Pantone Gray |
| **PORTS** | Transmitter | **1x USB-B Host Port:** Supports USB 3.2 Gen 1 |
| | | **1x RJ45 HDBT Port** |
| | | **1x RS232:** 3-pin Pheonix Connector |
| | | **1x USB-C:** Firmware Update Port |
| | | **1x DC 24V/ 2A Power Input Port** |
| | Receiver | **4x USB-A Ports:** <br> • Port 1/2 - Max Output Power up to 5V/1.5A <br> • Port 3/4 – Max Output Power up to 5V/1A |
| | | **1x RJ45 HBDT Port** |
| | | **1x RS232:** 3-pin Pheonix Connector |
| | | **1x USB-C:** Firmware Update Port |
| | | **1x DC 24V/ 2A Power Input Port** |

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## TECHNICAL DRAWING

**Receiver**



85
[3.35]

7.5
[0.3]

100
[3.94]

82.6
[3.25]

25.5

USB3.0 TYPE-A PORTS
USB LED

RJ45 PORT
LINK LED
4PIN-3.5MM PHOENIX PORT
USB2.0 TYPE-C PORT
POWER LED
POWER SUPPLY PORT

**Transmitter**



85
[3.35]

7.5
[0.3]

100
[3.94]

82.6
[3.25]

25.5

USB3.0 TYPE-B PORT
USB LED

RJ45 PORT
LINK LED
4PIN-3.5MM PHOENIX PORT
USB2.0 TYPE-C PORT
POWER LED
POWER SUPPLY PORT