SUPERBOOSTER®
USB EXTENDER

Superbooster® 1-Port USB over Cat6a Wall Plate to 4-Port USB Box Extender Kit - USB 3.2 Gen1 (5Gbps)

C2G's Superbooster® 1-Port USB over Cat6a Wall Plate to 4-Port USB Box Extender Kit - USB 3.2 Gen1 (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.

C2G54269

Tested and proven
What's more, this C2G Superbooster USB Extender has undergone rigorous compatibility testing with industry-leading video conferencing cameras, ensuring total reliability and deployment confidence, plus saving valuable time for AV integrators as well.

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.

ITEM	DESCRIPTION
C2G54269	Superbooster® 1-Port USB over Cat6a Wall Plate to 4-Port USB 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 USB 3.2 Gen 1 data signal up to 328ft (100m) over Cat6a F/FTP cable

- USB 3.0 connectivity with data transfer rate up to 5Gbps

- Backwards compatible with USB 2.0 and 1.1

- Supports bi-directional 24V PoC

- Plug and play – no drivers required

- Hardware acceleration for isochronous and bulk transfer

- The Receiver includes four USB-A ports: Port 1 and 2 supporting 5V/1.5A. Port 3 ang 4 supporting 5V/1A.

- 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[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]
Polycom 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]

KEY NOTES

1. Incompatible with passive cables.
2. ChromeOS does not offer an SSD speed test app, but files will still be accessible.
3. Limited to 1080p 30Hz.
4. Slower speeds after waking from sleep. Restart of the computer may be needed to regain full speeds.
5. Some speeds are slower than expected, but the device is still functional.
6. 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.
7. Resolution is occasionally limited to below its maximum; typically re-plugging the cable on the PC or restarting the PC will fix.
8. 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

	C2G54269		
PHYSICAL SPECIFICATIONS	USB	Protocol	USB 3.2 Gen 1
		Transmission Rate	Up to 5Gbps
	Range/Distance	Cat6a (F-FTP) cable: Up to 328ft (100m)	
PHYSICAL CHARACTERISTICS	Dimensions (HxWxD)	Transmitter: 4.2 x 1.7 x 1.5 in (106.5 x 44 x 38.5mm)	
		Receiver: 1 x 3.35 x 3.94in (25.5 x 85 x 100mm)	
	Housing Material	Metal	
	Color	Black	
	Regulatory Approvals	CE marked; Conforms to 2011/65/EU ROHS 2	
PORTS	Transmitter Input	1x Data [USB-C Host, USB 3.2 Gen1 female]	
		1x USB-C [Firmware Update Port, USB 2.0]	
		1x DC 24V/ 2A Power Input Port	
	Transmitter Output	1x HDBT-USB3 [RJ45 Connector, 24V PoC]	
	Receiver Input	1x HDBT-USB3 Port	
		1 x Service [Firmware update Port, USB 2.0]	
		1x DC 24V/2A Power Input Port	
	Receiver Output	4x USB-A Ports	Port 1/2 - Max Output Power up to 5V/1.5A
			Port 3/4 – Max Output Power up to 5V/1A
			1x RS232: 3-pin Pheonix Connector
CONNECTORS	USB-C Port	Bi-directional data and power transfer	
	RJ45/Ethernet Port	Use Cat6a F/FTP cable for data and power transfer	
	Power	Optional external power to support local devices (up to 3A)	
POWER	Power Supply	Input: AC 100~240V 50/60Hz, 1.5A	
		Output: DC 24V/2A	
ENVIRONMENTAL	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)	

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

BEST PRACTICES

Please follow these recommendations to achieve best
performance from your C2G54265 Superbooster 4-Port
USB Extender.

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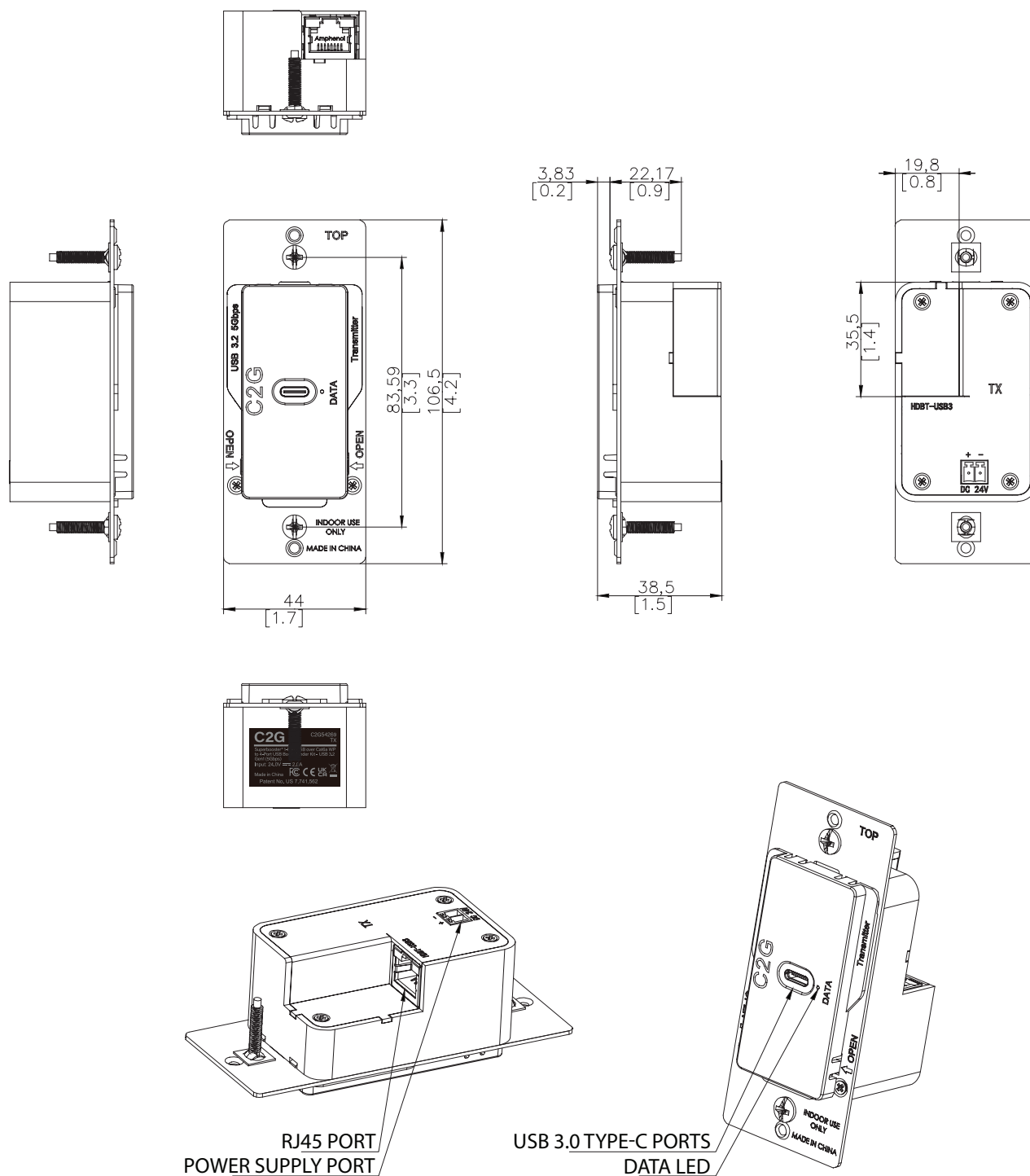For best performance, use 295 ft (90m) or shorter
Cat6a F/FTP cable.

- 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,
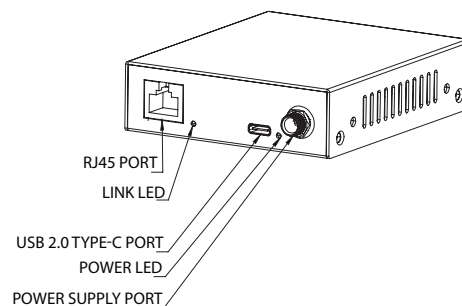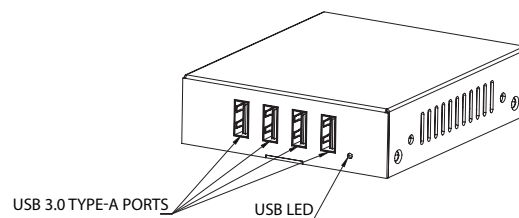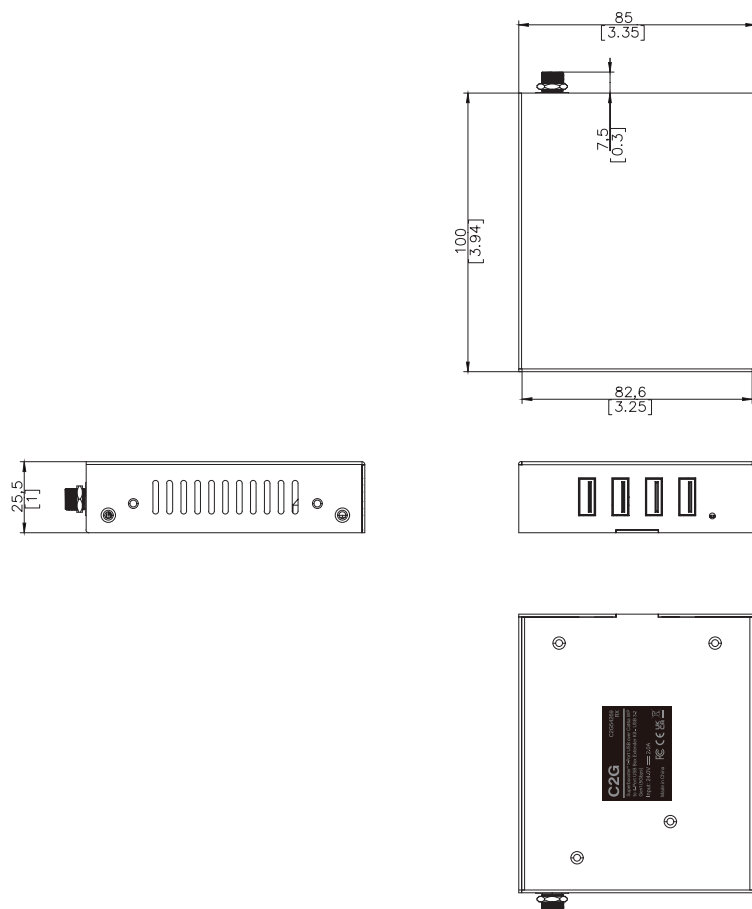 please ensure you are using a USB-IF certified cable)

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TECHNICAL DRAWINGS

3,83 [0.2]

22,17 [0.9]

19,8 [0.8]

83,59 [3.3]

106,5 [4.2]

35,5 [1.4]

TX

HDBT-USB3

DC 24V

44 [1.7]

38,5 [1.5]

RJ45 PORT
POWER SUPPLY PORT

USB 3.0 TYPE-C PORTS
DATA LED

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TECHNICAL DRAWINGS

85
[3.35]

7.5
[0.3]

100
[3.94]

82.6
[3.25]

25.5
[1]

USB 3.0 TYPE-A PORTS

USB LED

RJ45 PORT

LINK LED

USB 2.0 TYPE-C PORT

POWER LED

POWER SUPPLY PORT

SIMPLIFIED CONNECTIVITY