

U-BRIDGE USB-C

USB-C EXTENSION – USB 2.0 AND DISPLAYPORT ALTERNATE MODE

DEVICE CONNECTORS

Device extender module



PC Host extender module



OVERVIEW

U-BRIDGE USB-C – 4K60 USB-C extender for up to 40 m (132 ft.) and 1080p60 USB-C extender for up to 70 m (230 ft.) over CAT6A

The INOGENI U-BRIDGE USB-C is a purpose-built extender that extends full USB-C functionality—including USB 2.0, power, and DisplayPort Alternate Mode—up to 70 m (230 ft.) over a single CAT6A cable via HDBaseT[®] proven technology, while also enabling Ethernet LAN connectivity to the laptop, as well as control and management. It is ideal for extending USB-C laptops to videoconferencing equipment, for room displays, and with networks in modern meeting spaces. The extender can connect to an all-in-one videobar that supports BYOM.

The U-BRIDGE USB-C provides reliable long-distance extension while maintaining high-quality, uncompressed video. It extends the videobar's UVC/UAC interface (camera and audio) and simultaneously sends video content to the in-room display.

High-performance audio/video connectivity and 100W charging

- USB-C extension over CAT6A U/FTP cable up to 70 m (230 ft.)
 - Uncompressed video signal via HDBaseT[®] proven technology
 - Reach: 40 m (132 ft.) at 4K60 and 70 m (230 ft.) at 1080p
 - Supports USB 2.0 and DisplayPort Alternate Mode
 - PoE powers the PC host module from the device module
 - USB-C power supply included to enable 100W laptop charging

- 2x USB 3.0 device ports
 - USB 2.0 data rate: up to 480 Mbps when extending USB devices
 - **Note:** If USB 3.2 Gen 1 connectivity is required, users can link both units via the USB3-EXT ports and use the INOGENI U-BRIDGE 3 to extend SuperSpeed USB 3.2 Gen 1 signals.
- 4K60 HDMI output
 - Compatible with HDCP 2.3, HDMI 2.0b, and DVI 1.0
- Advanced video processing with 4:4:4 and 4:2:2 chroma subsampling

Versatile USB and video extension

- Supports all USB peripherals, including webcams, videobars, audio devices, and HID
- Ideal for systems with USB-C connectivity, such as Lenovo Core Gen 2, Cisco Room Bar Pro, Cisco Room Kit EQ, Poly G62, Logitech MeetUp 2 and ClickShare CX50 Gen 2
- Provides up to 1.8A of shared USB power
- IP interface with DHCP/static IP support for control and network bridging

Full-featured integration and simple deployment

- The DEVICE module includes:
 - 1x USB-C port for DisplayPort, Alt Mode and USB 2.0 extension
 - 2x USB-A 3.0 for cameras, videobars or speakerphones
 - 1x USB3-B for USB 3.0 extension (when necessary)
 - 1x 4K60 HDMI output
 - 2x RJ-45 for LAN and for CAT6A HDBaseT Link to the PC HOST module
 - Power 12V and PoE to the PC host module over CAT6A Link

OVERVIEW – CONT.

- The PC HOST module includes:
 - 1x USB-C port for DisplayPort, Alt Mode and USB 2.0 extension
 - 1x USB-C ports for laptop charging up to 100W
 - 1x USB3-A for USB 3.0 extension
 - 1x RJ-45 for HDBaseT Link to the device module
- USB-C and HDMI connectors with lock screws for secure attachment
- Compact, professional-grade aluminum housing with mounting brackets
- Plug-and-play compatibility with Windows, macOS, and Linux—no drivers required

Reliable performance

- Direct connection up to 70 m (230 ft.) using CAT6A U/FTP cable
- LED indicators for power and charging status
- Backed by a 5-year warranty
- Made in Canada and TAA-compliant

WHAT'S IN THE BOX

- 1x PC HOST extender module
- 1x DEVICE extender module
- 1x 1.8 m (6 ft.) USB Type-C to Type-C cable
- 1x 0.9 m (3 ft.) micro-USB to USB-A cable
- 1x Quick Start Guide
- 2x mounting brackets for the power supply
- 2x mounting brackets for the USB-C power supply
- 2x mounting brackets for the PC HOST module
- 2x mounting brackets for the DEVICE module
- 16x black wooden screws
- 1x power supply 100-240V AC Input, 24V 2.5A DC output
- 1x USB-C power supply – 100-240V AC input, up to 20V 5A DC output
- International power adapter with country-specific cord (North America, EU, UK, Australia/NZ, or Japan)

HOW DOES IT WORK?

Extend your USB-C videobar UC system, CODEC, or videoconferencing system to your laptop up to 70 m (230 ft.) using the U-BRIDGE USB-C.

The U-BRIDGE USB-C extender is specifically designed to extend USB-C functionality, including USB data, DisplayPort Alternate Mode, power, and Ethernet, from your laptop to your USB-C-equipped videobar or CODEC. With the capability to extend connections up to 70 m (230 ft.) over a single CAT6A cable, it guarantees reliable performance and high-quality, uncompressed video at 4K60 HDMI output.

It's perfect for BYOM setups, this solution allows seamless integration with your videoconferencing system by transmitting camera and audio via the UVC/UAC interface of your videobar while simultaneously sending video content to the room display. It also provides up to 1.8A of USB power across the connected devices for stable performance and charging.

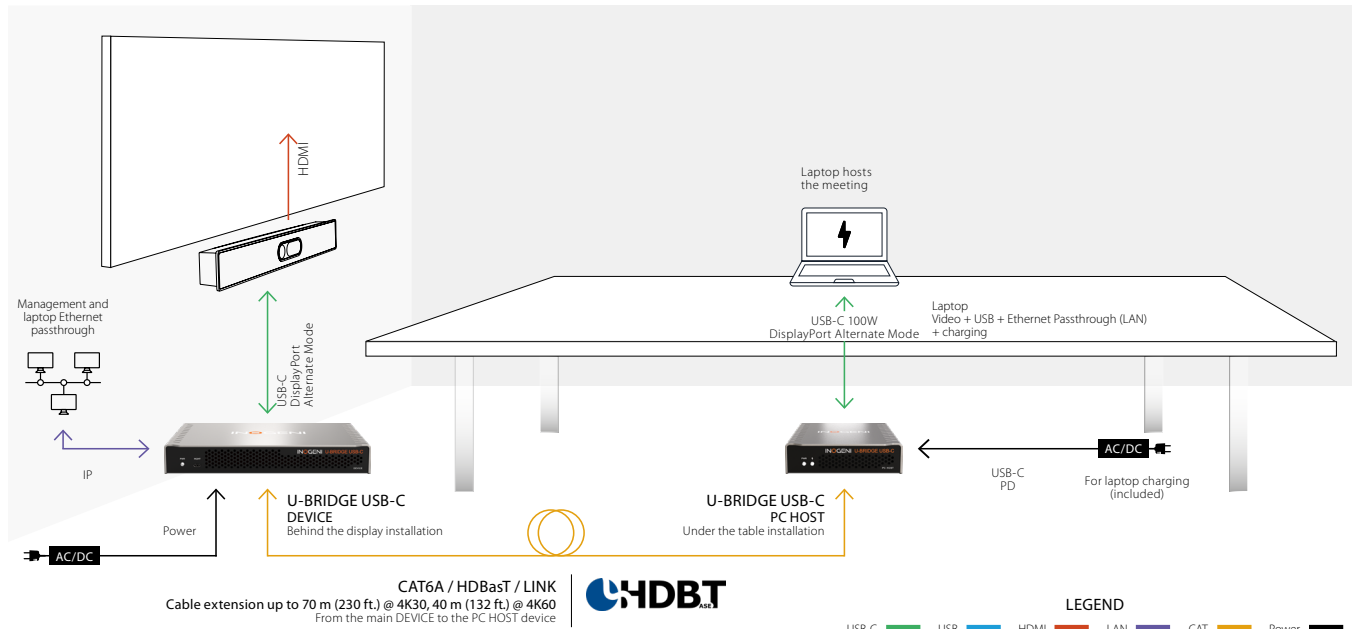
It is compatible with leading videoconferencing platforms, such as Microsoft Teams Rooms, Zoom Rooms, and more, the U-BRIDGE USB-C is your go-to solution for extending your USB-C videobar or CODECs to your laptop for enhanced meeting productivity.

LINK

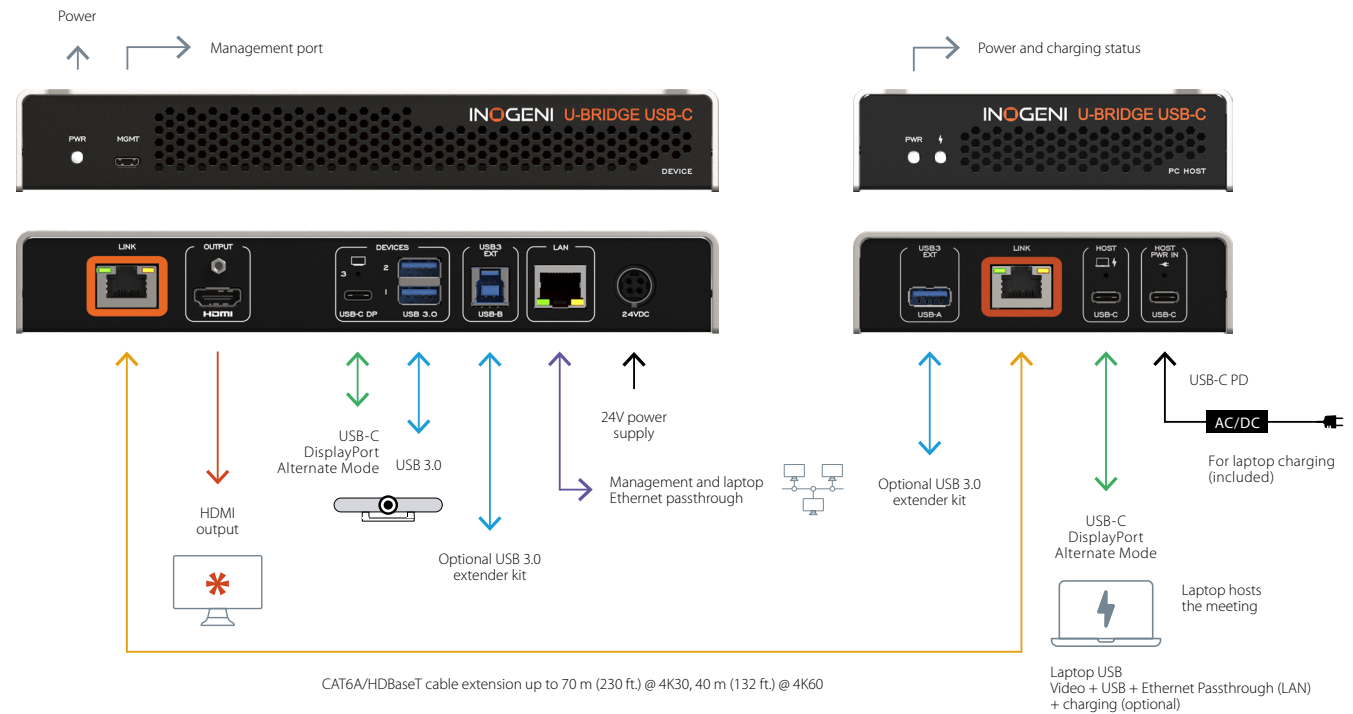
Up to 70 m (230 ft.) using CAT6A U/FTP cable

- Reliable HDBaseT extension over CAT6A U/FTP cable. [Discover the INO-CAT6A cable.](#)
- Use PoE (Power over Ethernet) to power the PC Host extender module from the Device extender module
- **INO-CAT6A cable: Unmatched performance and stability**
 - INOGENI recommends using the **INO-CAT6A** cable to ensure optimal signal transmission and maximum reliability. While other cable manufacturers may provide varying performance levels, INOGENI's lab has conducted extensive tests to give you the flexibility to choose your preferred cable brand.

FEATURED CONNECTORS



DEVICE INTERFACES



USB-C Device	VIDEO OUTPUT		
	USB-C	HDMI	HDMI 2 (DUO only)
DP Alt mode	✓	✗	✓
USB-C / USB 3 (Data only)	✗	✓	✓

LEGEND



TECHNICAL SPECIFICATIONS

LINK	
Technology	HDBaseT 3.0
Range	Direct connect up to 70 m (230 ft.) over CAT6A U/FTP (HDMI 4K30) Direct connect up to 40 m (132 ft.) over CAT6A U/FTP (HDMI 4K60)
Medium	CAT6A U/FTP NOTE: We do not recommend using a crimp tool for attaching terminations. Instead, we highly recommend utilizing toolless terminations to ensure the preservation of signal integrity.

USB	
Speeds	USB 2.0: up to 480 Mbps when USB devices are extended *USB 3.2 Gen 1 if devices are extended with the use of our U-BRIDGE 3 extension
Transfer support	Bulk, isochronous, interrupt and control types Built-in hardware acceleration for isochronous and bulk transfers

PC HOST EXTENDER	
USB host connector	1x USB Type-C receptacle with mounting screw hole for connection to the laptop. <ul style="list-style-type: none"> • USB2.0 • USB 3.2 Gen 1 (with the use of our U-BRIDGE 3 extension) • Video up to 3840x2160p60 / 4096x2160p60 • Charging through provided USB-C power supply • Network connectivity • Supported over Windows and Linux systems • No network connectivity available using macOS system. This will be supported in a next hardware revision.
USB power connector	1x USB Type-C receptacle with mounting screw hole for USB-C power supply <ul style="list-style-type: none"> • Power source input • USB2.0 connection reserved for management

PC HOST EXTENDER - CONT.	
Link connector	1x RJ45
USB3-EXT connector	1 x USB-A connector for connection to our U-BRIDGE 3 for USB3.2 Gen 1 support
LED	1x power LED 1x charging status LED
Dimensions (W x L x H)	12.0 cm x 14 cm x 3.3 cm 4.72" x 5.51" x 1.18"
Weight	470 g (1.04lb)
Mounting	Brackets provided
Enclosure material	Aluminum/metal case
Power	PC HOST is powered by the DEVICE module, except for charging the laptop

DEVICE EXTENDER	
USB connectors	2x USB-A (USB3.2 Gen 1) receptacle 1x USB-C (USB3.2 Gen 1) receptacle with mounting screw hole
Video outputs	1x USB-C DisplayPort Alternate Mode – Source 1x HDMI 2.0 receptacle with cable locking option <ul style="list-style-type: none"> • Up to 3840x2160p60 / 4096x2160p60 NOTE: If you connect a DisplayPort Alternate Mode device on the USB-C port, the HDMI output will not be used since USB-C is taken in priority.
Link connector	1x RJ45
USB3-EXT connector	1x USB-B connector for connection to our U-BRIDGE 3 for USB3.2 Gen 1 support
LED	1x power LED
Available current	USB-A : 900mA by port USB-C : 3A
Dimensions (W x L x H)	22.3 cm x 14 cm x 3.3 cm 8.78" x 5.51" x 1.18"
Weight	820 g (1.81lb)
Mounting	Brackets provided
Enclosure material	Aluminum/metal case
IP interface	10/100Mbps Supports DHCP or static addressing Used for control / management and USB-C network connectivity over the PC HOST module

TECHNICAL SPECIFICATIONS - CONT.

VIDEO - HDMI

HDCP compliance	Compliant with HDCP2.3, HDCP2.2 and HDCP1.4
HDMI compliance	Compliant with HDMI2.0b and HDMI1.4
Sampling frequency	600MHz
Chroma subsampling	YUV/RGB 4:4:4, 4:2:2
CEC	Ability to send CEC commands to connected HDMI display sink

INFORMATION

UPC code	051497480417
Origin	Canada
Warranty	5 years

CERTIFICATIONS

Certifications device	FCC, CE, UKCA, RoHS, SoV, RCM, NOM
Certifications power supply - 60W	FCC, CE, UKCA, CB, UL, TUV, EMC, IEC62368
Certifications power supply - 100W	FCC, CE, UKCA
TAA-compliant	Yes

PHYSICAL DETAILS

Package dimensions (W x L x H)	35.5 cm x 29.0 cm x 12.6 cm 14.0" x 11.4" x 4.96"
Power supplies	100-240V AC input, 24V 2.5A DC output 100-240V AC input, USB-C P TO 20V 5A DC output
Package weight	3610 g (9.96 lbs)
Package contents	1x PC HOST extender module 1x DEVICE extender module 1x 1.8 m (6 ft.) USB Type-C to Type-C cable 1x 0.9 m (3 ft.) micro-USB to USB-A cable 1x Quick Start Guide 2x mounting brackets for the power supply 2x mounting brackets for the USB-C power supply 2x mounting brackets for the PC HOST module 2x mounting brackets for the DEVICE module 16x black wooden screws 1x power supply 100-240V AC input, 24V 2.5A DC output 1x USB-C power supply – 100-240V AC input, up to 20V 5A DC output International power adapter with country-specific cord (North America, EU, UK, Australia/NZ, or Japan)
Operating temperature	0°C to 50°C / 32°F to 122°F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Operating humidity	20% to 80% relative humidity, non-condensing
Storage humidity	10% to 90% relative humidity, non-condensing

For technical support, contact us at support@inogeni.com



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