



# INOGENI U-BRIDGE 3 WP

## User guide

Version 1.0

April 30, 2025

VERSION HISTORY

Version	Date	Description
1.0	April 30, 2025	Preliminary user guide for device launch.

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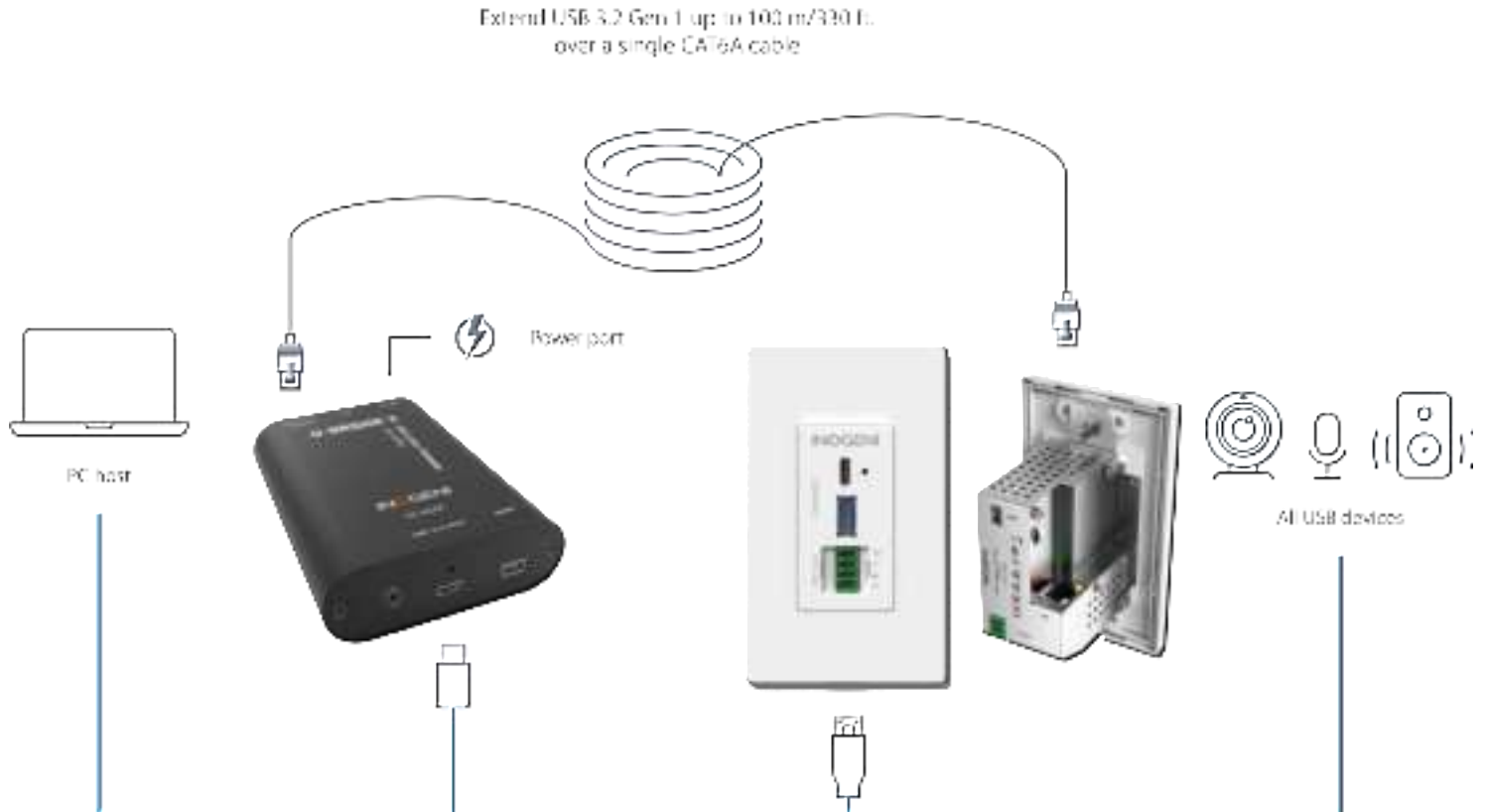
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## INTRODUCTION

The U-BRIDGE 3 WP is a USB 3.2 Gen 1 extension over CAT6A that can extend a 5Gbps signal between a host and devices. This is a two-boxes solution, which are called PCHOST and DEVICE modules. The DEVICE module is a wall plate that can be mounted to the wall.

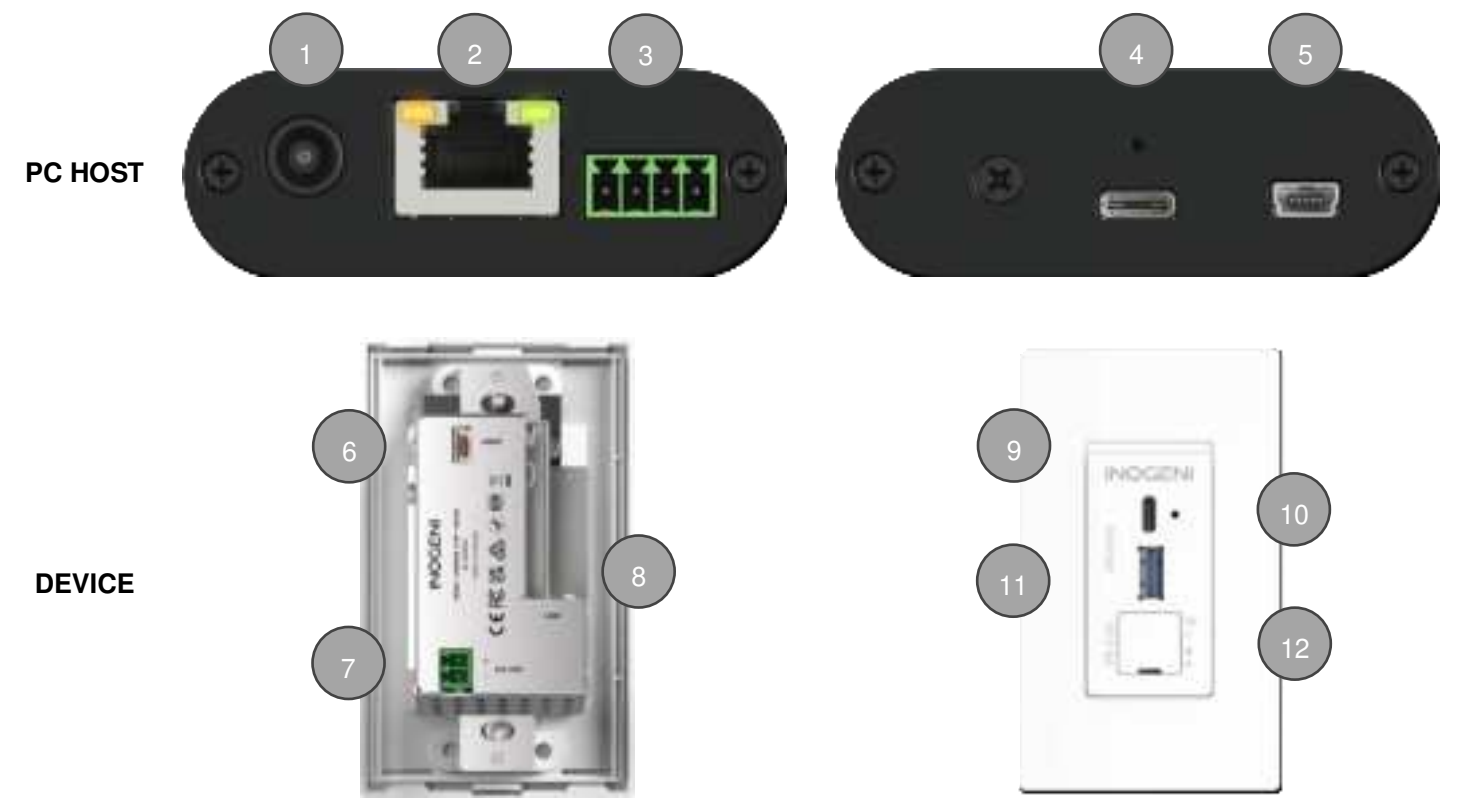
## CONNECTIVITY DIAGRAM

Here is a simple U-BRIDGE 3 WP connectivity diagram.



DEVICE INTERFACES

Here are the devices interfaces.



Items		
PC HOST	1	+24VDC power input. If power supply is connected here, the DEVICE side will be powered using PoC through the HDBaseT link.
	2	HDBaseT link.
	3	RS232 connection.
	4	USB-C host connection.
	5	USB-mini management connection.
DEVICE	6	USB-mini management connection.
	7	Optional +24VDC power input. We recommend to power up the whole system from the PC HOST module for a clean installation.
	8	HDBaseT link.
	9	Front led.
	10	USB-C device connection.
	11	USB-A device connection.
	12	RS232 connection.

## LEDS BEHAVIOR

Here are the LEDs behavior on the HDBaseT link connection:

GREEN LED	
<b>OFF</b>	No power.
<b>SOLID</b>	System powered with USB 3.0 connection.
<b>BLINK</b>	System powered. Led blinks over a USB2.0 connection if HDBaseT link is valid. Led blinks if no HDBaseT link.
ORANGE LED	
<b>OFF</b>	No HDBaseT connection detected.
<b>SOLID</b>	HDBaseT connection detected.

Here is the behavior on the front LED of the wallplate:

FRONT LED	
<b>OFF</b>	No power or no HDBaseT link.
<b>SOLID</b>	System powered with USB 3.0 connection.
<b>BLINK</b>	System powered with USB 2.0 connection.

## SPECIFICATIONS

Here is the complete specification.

Main feature	
<b>Description</b>	The U-BRIDGE 3 WP USB 3.2 Gen 1 extender enables superspeed USB 3.0 connection of up to 100m/330ft. over a single CAT6A
Link	
<b>Technology</b>	HDBaseT-USB3
<b>Range</b>	Direct connect up to 100m (330ft) over CAT6A U/FTP
<b>Medium</b>	CAT6A U/FTP <b>NOTE:</b> 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	
<b>Speeds</b>	USB 3.2 Gen1 / USB 3.1 Gen1 / USB 3.0: up to 5 Gbps USB 2.0: up to 480 Mbps <b>NOTE: USB-C DisplayPort Alternate Mode is not supported.</b>
<b>Transfers support</b>	Bulk, isochronous, interrupt and control types Built-in hardware acceleration for isochronous and bulk transfers
PC Host extender	
<b>USB connector</b>	1 x USB Type-C receptacle with mounting screw hole
<b>Link connector</b>	1 x RJ45
<b>Dimensions (W x L x H)</b>	7.0 cm x 9.7 cm x 2.3 cm 2.76" x 3.82" x 0.90"
<b>Weight</b>	170 g (0.37 lb)
<b>Mounting</b>	Bracket provided
<b>Enclosure material</b>	Black anodized aluminum case
<b>RS232 connector</b>	Passthrough serial connection By default, I/O pin is an input. +1.8V logic (maximum)
Device Wallplate extender	
<b>USB connector</b>	1 x USB-A receptacle 1 x USB-C receptacle with mounting screw hole
<b>Link connector</b>	1 x RJ45
<b>Available current</b>	Up to 1.8A shared between ports
<b>Dimensions (W x L x H)</b>	6.91 cm x 11.54 cm x 6.50 cm 2.72" x 4.53" x 2.56"
<b>Weight</b>	210 g (0.46 lb)
<b>Mounting</b>	1-gang wall plate
<b>Enclosure material</b>	Metal enclosure
<b>RS232 connector</b>	Passthrough serial connection. By default, I/O pin is an output. GND or OPEN
Compatibility	
<b>Consumed USB tiers</b>	Up to 2 tiers In USB 2.0, USB devices connected are reported to the same USB tier. In USB 3.0, the device introduces two tiers in the USB path.
Physical details	
<b>Package dimensions</b>	24.5 cm x 25 cm x 7.9 cm 9.69" x 9.84" x 3.11"
<b>Power supply</b>	100-240V AC Input, 24V 1.5A DC output. Apply at either PC HOST or DEVICE modules

Package weight	1200 g (2.65 lbs)
Package contents	1x PC HOST extender module 1x DEVICE wallplate extender module 1x USB 3.0 Type-C to Type-C cable 1x USB 3.0 Type-C to Type-A cable 1x USB-mini to USB-A cable 1x installation guide 2x mounting brackets for the power supply 1x mounting clip for the PCHOST module 2x 4-pos terminal blocks 1x 2-pos terminal block 8x black wood screws 1x 1-gang drywall clip 1x Decora plate 1x power supply 100-240V AC Input, 24V 1.5A 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

Information	
UPC code	051497468057
Origin	Canada
Warranty	5 years

Certifications	
Certifications device	FCC, CE, UKCA, RoHS, IEC62368, SoV, RCM, NOM
Certifications - Power supply 36W	FCC, CE, UKCA, CB, UL, TUV, EMC
TAA-Compliant	Yes

SERIAL CONNECTION

Here is the serial connection of the U-BRIDGE 3 WP. A serial port from a DUT can be extended when using our device.

This is the pinout of the serial connection:

PC HOST module



Pin 1: Receive

Pin 2: GND


Pin 3: Transmit

Pin 4: I/O

DEVICE wallplate



The direction of the I/O pin can be configured through Maestro software.



NOTE:

By default, the PC HOST I/O pin is an input and DEVICE I/O pin is an output.



The support for U-BRIDGE 3 WP under [INOGENI Maestro](#) application is still under development. We will have the support inside the next software version.



MECHANICAL SPECIFICATION

You can find the mechanical specification of the device. All dimensions are in **mm [in]**.

PC HOST MODULE

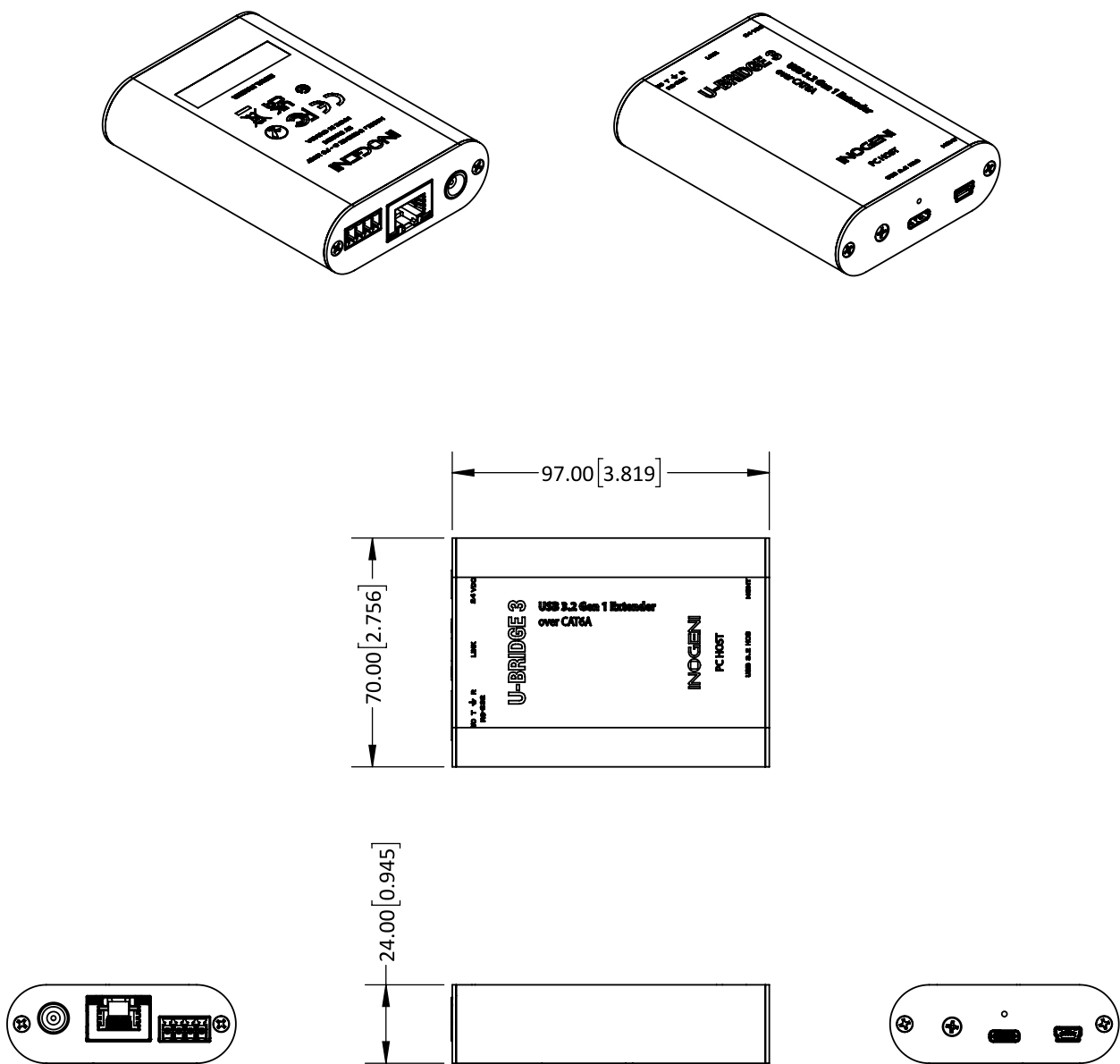


Figure 1: PC HOST module dimensions

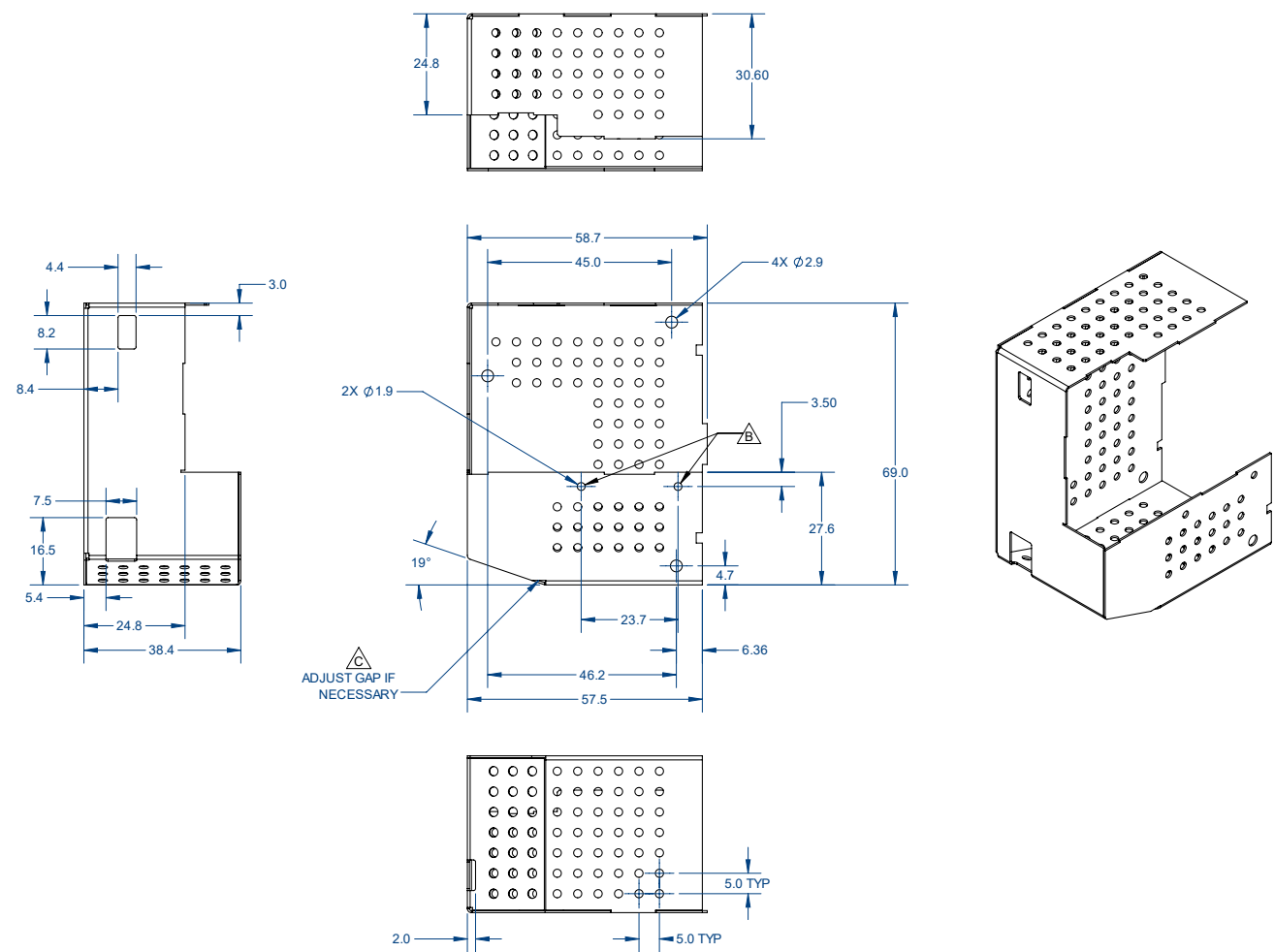


Figure 2: DEVICE module dimensions

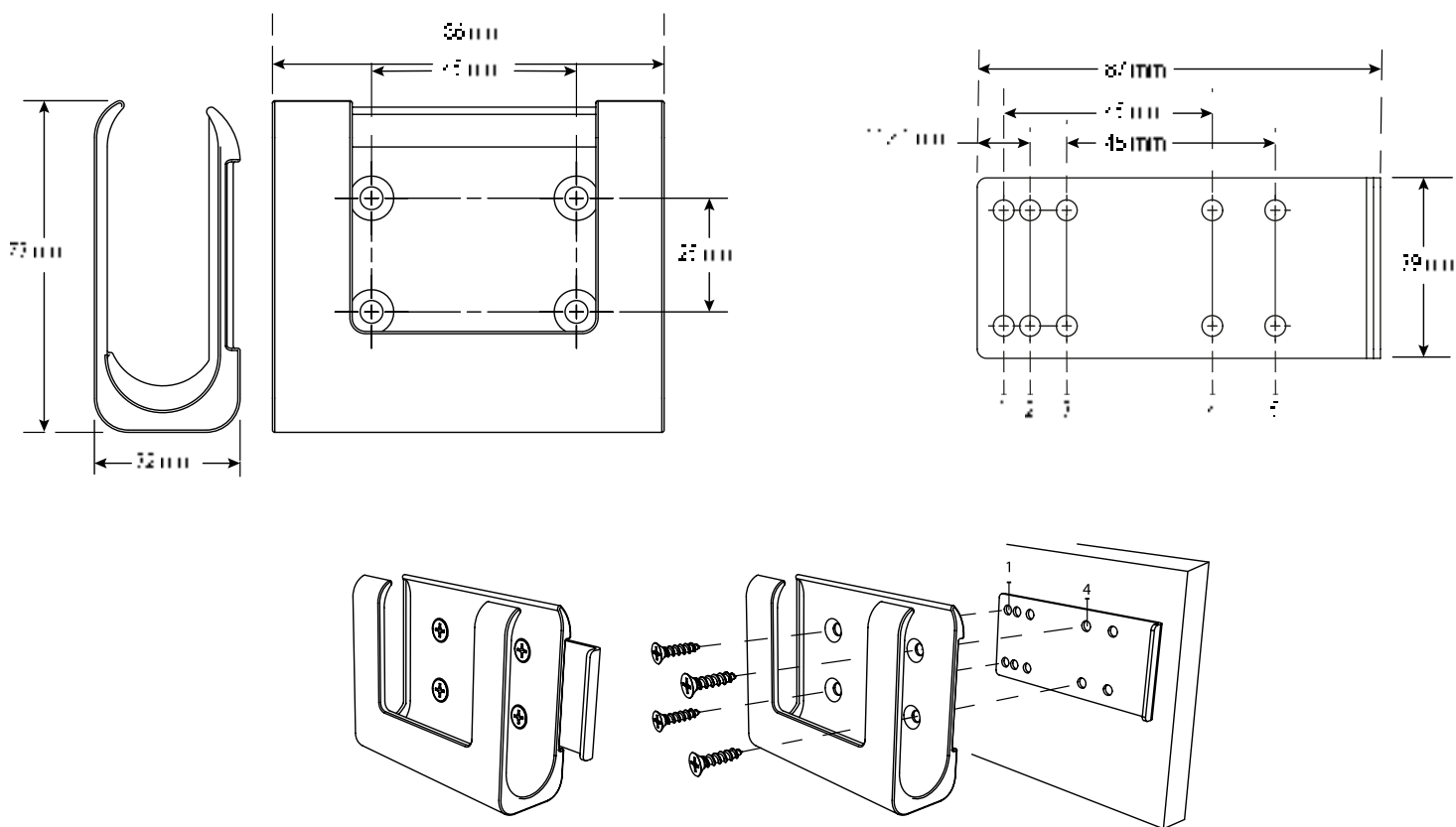


Figure 3: Bracket dimensions for PC host module

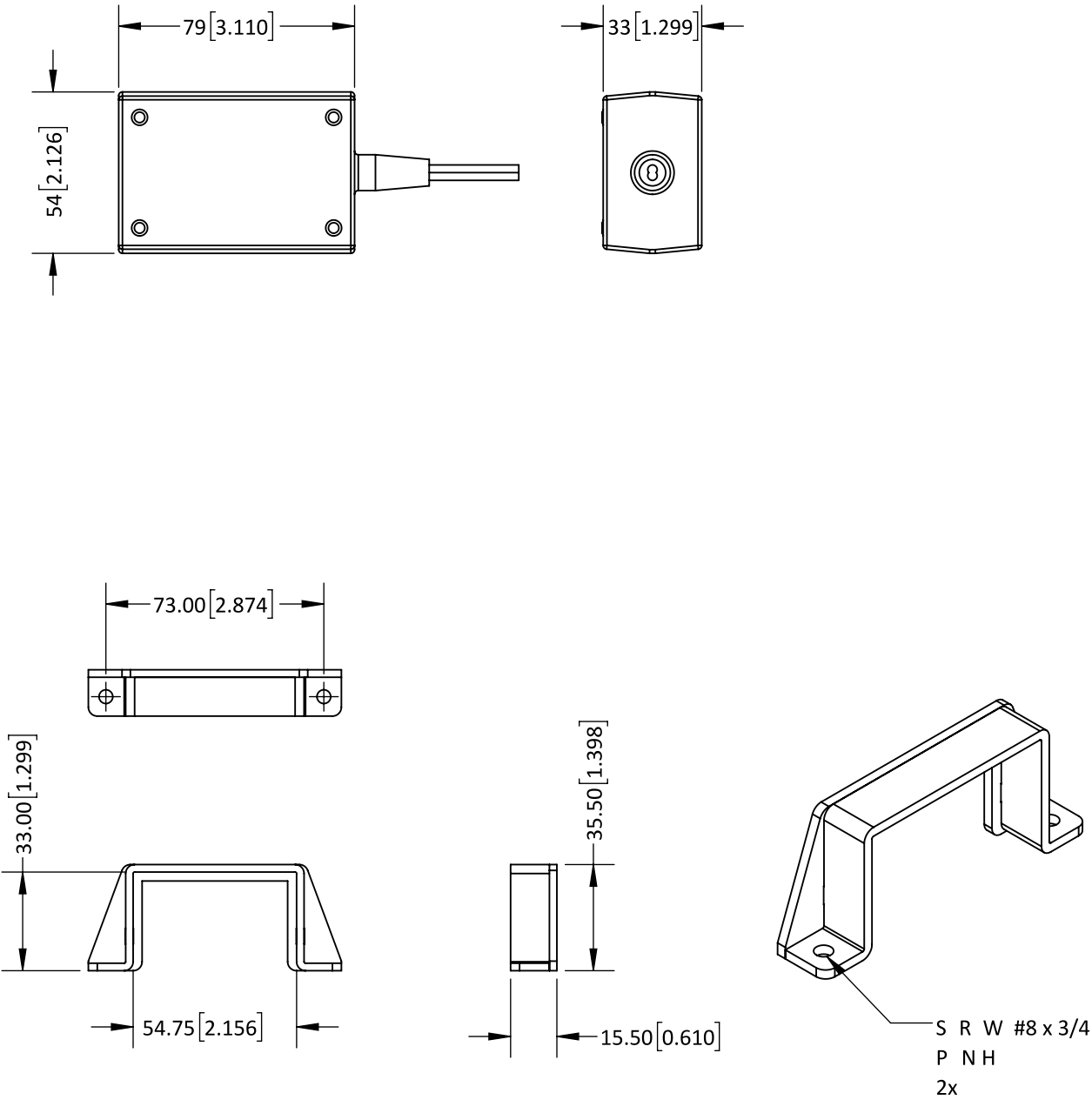


Figure 4: Power supply bracket dimensions

## TROUBLESHOOTING SECTION

Here is the troubleshooting section for the device.

Problem	Resolution
<b>Green LED is blinking slow Orange LED is OFF</b>	PC HOST side is not connected to a PC or HDBaseT cable is not working properly.
<b>Green LED is blinking slow Orange LED is ON</b>	PC HOST side is not connected to a PC.
<b>Green LED is blinking fast</b>	There is a firmware problem, connect the USB-C PC HOST port and mini-USB management port to a PC running Maestro for firmware upgrade.
<b>Green LED is OFF Orange LED is OFF</b>	PC HOST side: No power from the USB-C port of the host PC. DEVICE side: No power to the 24VDC port on either HOST side (via PoC) or DEVICE side (direct), or HDBaseT cable is not connect or not working properly if using PoC.
<b>Unstable USB 3.0 connection</b>	HDBaseT cable is too long or not working properly. USB cables are too long or not working properly.
<b>USB 3.0 ports are shutting down</b>	Too much power drawn on USB ports, the maximum current consumption is 1.8A total for the 3 ports.
<b>Using a USB-C to USB-A adapter, my USB 3.0 devices are detected in USB2.0 mode only on my computer.</b>	Most of passive USB-C to USB-A adapters support USB3.0 on one side of the USB-C connection. Flip by 180 degrees the USB-C connection next to the adapter to see if this resolves the issue.
<b>I cannot extend USB-C video from laptop to my USB-C monitor</b>	The device does not support USB-C DisplayPort Alternate Mode.

Engineered by video professionals, for video professionals, it is your most compatible USB 3.0 device. INOGENI expertise at your fingertips:

- **Expert Technical Support team** at [support@inogeni.com](mailto:support@inogeni.com) for immediate help or if you have any technical question about our products.
- Extensive **Knowledge Base** to learn from other customers' experiences.

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## CERTIFICATIONS



### **FCC Radio Frequency Interference Statement Warning** This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received including interference that may cause undesired operation.

### **IC Statement**

This Class A digital apparatus complies with Canadian CAN ICES-3(A)/NMB-3(A).



### **CE Statement**

We, INOGENI Inc., declare under our sole responsibility that the U-BRIDGE 3 WP, to which this declaration relates, is in conformity with European Standards EN 55032, EN 55035, and RoHS Directive 2011/65/EU + 2015/863/EU.



### **UKCA Statement**

This device is compliant with the Electromagnetic Compatibility Regulations 2016 No. 1091 as part of the requirements leading to the UKCA marking.



### **WEEE Statement**

The European Union has established regulations for the collection and recycling of all waste electrical and electronic equipment (WEEE). Implementation of WEEE regulations may vary slightly by individual EU member states. Please check with your local and state government guidelines for safe disposal and recycling or contact your national WEEE recycling agency for more information.



### **RCM Statement**

This device is compliant with Regulator Compliance Mark (RCM) certification.



### **NOM Statement**

This device is compliant with the NOM-019 standard.