

1 Overview

This guide assumes that Ubuntu 22.04 or 24.04 is installed on the Host PC or a secondary machine interacting with USB-enabled Series 300 devices.

2 Installation

2.1 Host PC Requirements

- **OS:** Ubuntu 22.04 Jammy or Ubuntu 24.04 Noble
- **CPU:** Intel or AMD 64-bit architecture, 2.5GHz, dual-core or better
- **WAN:** Must be able to reach ppa.cuwb.io via port 443¹
- **RAM:** 8 GB or more
- **HD:** 32 GB or more

1. Only required for online installation.

2.2 Online Installation

To install the necessary drivers, follow the steps below. When you reach the “CUWB Applications Selection” screen during the setup process, ensure that **CUWB USB Driver** is selected for installation.

1. Follow best practices and review [the install.sh script](#).
2.

```
bash <(wget -qO- "https://cuwb.io/docs/latest/assets/software-packages/install.sh")
```
3. Paste into an Ubuntu 22.04/24.04 terminal and press Enter.

2.3 Offline Installation

The CUWB USB Driver can be installed on Host PCs that do not have PPA access by using a standalone DEB package. Users should first refer to the Current Downloads Available section under Software Packages to obtain the correct package, then transfer the file to the Host PC using a USB drive or an alternative local transfer method. Once the file is on the target machine, navigate to the directory containing the package and execute the installation by entering the following into a terminal window:

```
sudo apt install ./cuwb-usb-interface_<version>_amd64.deb
```

3 Getting Started

The PT301 communicates directly with the local PC via USB, whereas the CUWB Manager Package is designed to interface with Ethernet-based systems rather than USB protocols. The CUWB USB Driver acts as a bridge, allowing UWB-enabled hardware like the PT301 to operate on the CUWBNET as if it were a standard Ethernet-based UWB device. To facilitate this connection, an individual instance of the CUWB USB Driver must be active for every PT301 device connected to the computer. This can be accomplished either by manually launching a separate client for each device or by utilizing the automated management features provided by the CUWB USB Driver service.

3.1 Setup

Plug in the PT301(s) that are going to be used as wired devices on the CUWBNet.

For PT301s, determine which USB interfaces(s) belong to the device(s):

```
> ls /dev/ttyUSB*  
/dev/ttyUSB0 /dev/ttyUSB1
```

Here in our example we have two PT301s connected to the local PC.

Determine which network interface you would like the PT301 to attach to:

```
> ifconfig  
enps4s0  Link encap:Ethernet  HWaddr 1c:6f:65:d3:38:b1  
          inet addr: 10.132.39.0  Bcast: 10.132.255.255  Mask: 255.255.0.0  
          inet6 addr: fe80::1e6f::65ff::fed3:38b1/64  Scope: Link  
          UP BROADCAST RUNNING MULTICAST  MTU: 1500 Metric: 1  
          RX packets: 464430022 errors: 0 dropped: 0 overruns: 0 frame: 0  
          TX packets: 4816244 errors: 0 dropped: 0 overruns: 0 carrier: 0  
          collisions: 0 txqueuelen: 1000  
          RX bytes: 118178068277 (118.1 GB) TX bytes: 854053251 (854.0 MB)
```

Or if using the PT301 on the same PC that is running CUWB Manager Package, lo is allowed:

```
> ifconfig  
lo        Link encap: Local Loopback  
          inet addr: 127.0.0.1 Mask: 255.0.0.0  
          inet6 addr: ::1/128 Scope: Host  
          UP LOOPBACK RUNNING MTU: 65536 Metric: 1  
          RX packets: 8780339 errors: 0 dropped: 0 overruns: 0 frame: 0  
          TX packets: 8780339 errors: 0 dropped: 0 overruns: 0 carrier: 0  
          collisions: 0 txqueuelen: 1  
          RX bytes: 1187951355 (1.1 GB) TX bytes: 1187951355 (1.1 GB)
```

3.2 Running the CUWB USB Driver

Run the CUWB USB Driver Client:

```
> cuwb-usb-interface-client /dev/ttyUSB0 l0
```

Alternatively, the CUWB USB Driver Daemon will dynamically attach ttyACM and ttyUSB devices to the selected interface:

```
> sudo cuwb-usb-interface-daemon l0
```

3.3 Stopping the CUWB USB Driver

The driver can be stopped by using `ctrl + c`.

4 Revision

Version	Date	Change Description
5.0.1	2025-11-14	Updating Host PC Requirements
5.0.0	2025-10-31	Initial Preliminary Release

5 APPENDIX A : License Terms and Conditions

1 General Terms and Conditions of Purchase/Service

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“Ciholas” means Ciholas, Inc. including any entity controlled by Ciholas, Inc.

“End-User” means the person or entity that receives and uses Ciholas services and/or products.

“Firmware” means a code segment compiled into binary machine code that is embedded inside a device.

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In addition to export regulations, the United States and other countries have laws and regulations governing the use of radio frequency (RF) devices. In the United States, such regulation is under Title III of the Communications Act of 1934, as amended, and regulated by the Federal Communications Commission (FCC). The FCC oversees all non-Federal uses of the radio frequency spectrum, while other regulatory bodies oversee RF devices in other countries' jurisdictions. You agree that you will only use Ciholas products in the jurisdiction for which they were certified and will not exceed the products' operational and use limitations as stated in the product manual. All Ciholas products are labeled as to their specific jurisdictional certification in accordance with the laws of that jurisdiction.

7.1 Governing Law

This Agreement will be governed by the laws of the State of Indiana, USA. Parties agree to attempt, in good faith, to resolve and settle any dispute arising out of this Agreement through negotiation between officially authorized representatives of each party. If the dispute is not resolved through negotiation, any litigation arising from the use of Ciholas services and/or products must be brought and resolved in the State of Indiana, USA.

8 60-Day Money-Back Guarantee

All standard Ciholas products not covered by another agreement have a 60-day Money-Back Guarantee. If for any reason the performance of any product is not acceptable, the product may be returned to Ciholas for a refund. Please note: bulk orders are not eligible for the money-back guarantee and cannot be canceled once the order is processed.

Shipping costs and any taxes and/or duties are not refundable and there is a 20% restocking fee for all returns under this policy. To be eligible for a refund, a customer must include an RMA# (see our return process) and dated proof of purchase with the item for return. The cost of the return shipment, including all taxes and duties, is at the buyer's expense. Any product returned not in resalable condition will not be refunded.

9 Limited Warranty

Ciholas warrants that all Ciholas manufactured products, excluding software, will be free from any defect in materials or workmanship for a period of one year. Warranty begins on the date that an item is shipped from Ciholas to the buyer. The warranty is non-transferable and is extended only to the original buyers of this product when the product is used for the purpose for which it was intended. The one-year warranty covers only defects arising under normal use and does not include malfunctions or failures resulting from misuse, abuse, neglect, alteration, improper installation, acts of nature, tampering, or any repairs attempted by anyone other than Ciholas. During the one-year warranty period, the customer's sole and exclusive remedy will be, at Ciholas' sole discretion, the repair or replacement of the defective product, or refund of the purchase amount of the product. Ciholas reserves the right to substitute functionally equivalent new or serviceable used parts.

To be entitled to the rights provided by the one-year warranty, the customer must do the following:

1. Contact Ciholas Technical Support at returns@ciholas.com or 1-844-595-TECH (8324).
2. Provide in email/phone call, all model number(s), serial number(s), and proof of purchase for all items affected.
3. If return/exchange is necessary, customer will be given a Returned Material Authorization (RMA) # to include with their return.
4. The customer must then ship the item(s), at their expense (including all duties and taxes), to the address provided in the RMA authorization.
5. Once a product arrives at Ciholas, return shipment of repaired or replaced product(s) or a refund will be sent to the customer. The method of return shipment is at Ciholas' discretion and expense, except for applicable duties and taxes, which are the responsibility of the buyer.

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Ciholas does not warrant or guarantee, and is not responsible for the following:

1. Defects, failures, damages, or performance limitations caused in whole or in part by: (A) power failures and surges; fires; floods; acts of nature; excessive temperatures; corrosive environments; accidents; actions by third parties; or

- other events outside of Ciholas' control; or (B) customer abuse; mishandling; misuse; negligence; improper storage, servicing, installation, or operation; or unauthorized attempts to repair or alter equipment in any way.
2. Performance of the equipment when used in combination with equipment not purchased, specified, or approved by Ciholas.
 3. Consumable goods used with, or required by, Ciholas products.
 4. Alterations and/or modifications to any Ciholas equipment without Ciholas' written authorization. Such action unconditionally VOIDS the Ciholas Agreement and Warranty.
 5. Installation of any software code, other than that provided and licensed by Ciholas. Any such installation onto any Ciholas product voids the one-year warranty, unless a written exemption is provided to the customer by Ciholas.

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Credentials – Passwords and similar security information used for authentication and account access.

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We have implemented appropriate technical and organizational security measures designed to protect the security of any personal information we process. However, given that the internet is not 100% secure, transmission of personal information to and from our sites is at your own risk. Only access our services, products, and sites within a secure environment.

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These Terms of Service were last modified on 2025-11-11.

[End of Agreement]

6 APPENDIX B : Software License Attributions

This appendix documents the legal attributions for third party software and components included in the CUWB USB Driver.

1 bzip2

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