

# Recommended Computer Specifications

## **Operating System**

Trodes is supported on Windows 10 64-bit and Ubuntu 18.04. We can also provide builds for Mac OS on request. For applications involving high channel count recordings, low-latency control using the Trodes network API, or precise synchronization with video frames collected using an Allied Vision camera, we recommend using Ubuntu.

## **Hard drive**

Use a large hard drive (> 4TB) that is different from the drive used to store the operating system. A solid state drive is recommended for > 1000-channel recordings.

## **CPU**

For applications with 1000 channels or more, you will need a CPU with a minimum of 6 cores running at 3.4 GHz. Make sure the CPU supports AVX2 (most modern Intel and AMD processors do).

## **Memory**

At least 16GB DDR4

## **Graphics card**

A separate graphics card (NVIDIA, etc) is recommended, but nothing fancy is required.

## **Network card**

For applications where ethernet will be used (more than 128 channels), it is very important to select a fast gigabit ethernet card. We highly recommend the Intel CT PCI-E Network Adapter. If you are going to also use a gigabit video camera, get two. The MCU should not share a network adapter with any other devices.