## \*ZED Box Orin<sup>™</sup> NX 8GB

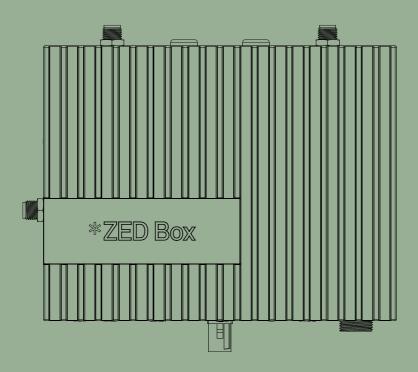
### **Overview & Datasheet**

The embedded mini-PC for spatial Al 5x more powerful than the Jetson Xavier NX.

The ZED Box Orin<sup>™</sup> NX takes advantage of NVIDIA® Jetson<sup>™</sup> modules to propel your AI capabilities to new heights. It revolutionizes 3D sensor data processing by delivering real-time performance, transforming this compact embedded PC into a fully autonomous AI system. With its small form factor and PoE+ power connection, it offers a complete solution in a convenient package.

Powered by NVIDIA® Jetson<sup>™</sup> Orin NX





StereoLabs\*

stereolabs.com

## \*ZED Box Orin<sup>™</sup> NX 8GB Overview

### Designed for stereo cameras

Thanks to 3 USB 3.2 gen2 ports, the ZED Box Orin unleashes the full capabilities of the ZED camera series and beyond, supporting natively all current Stereolabs depth camera models including the ZED X, ZED X Mini (the ZED X series require the GMSL2 option), ZED 2i, ZED Mini, and ZED 2.

### Multiple power supply options

The ZED Box Orin can be powered either via PoE+ (up to 15W) or by an external 12V/5A power supply. Powering the ZED Box Orin via PoE+ is a powerful advantage as a single Ethernet cable can stream the data and power the ZED Box. Users can deploy ZED cameras anywhere reachable by Ethernet cabling, enabling long-range and outdoor coverage.

### Easy to mount

Unlike the other systems out there, no drilling is required. Simply mount it, plug in the connectors, and power up your ZED Box. With a variety of mounting options to choose from, your ZED Box Orin can be reliably and securely installed in nearly any environment.

### Ready-to-use out of the box

The ZED Box comes set up with all the necessary components for development, such as the latest JetPack with CUDA, TRT, CUDNN, OpenCV, VisionWorks, Docker. In the box, you'll find 2 mounting brackets, 1 mini-USB to USB cable, 1 GMSL2 cable\*, 2 2.4/5GHz WiFi antennas.

### ZED Box Orin<sup>™</sup> NX 8GB

STEREOLABS-ZBX-310000
70 TOPS
1,024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores @ 768 MHz
6-core Arm® Cortex®-A78AE @ 2 GHZ
8 GB 128-bit LPDDR5 102.4GB/s
1x NVDLA v2 @ 614 MHz
256GB to 1TB* M.2 NVMe SSD
3x USB 3.2 Gen2 (10 Gbps) 1x Micro USB OTG (Flash) 1x Gigabit Ethernet 1x HDMI 1x Gigabit Multimedia Serial Links (GMSL2)** 1x WiFi 6 connectivity** 1x RTK GNSS GPS Ublox ZED F9P**

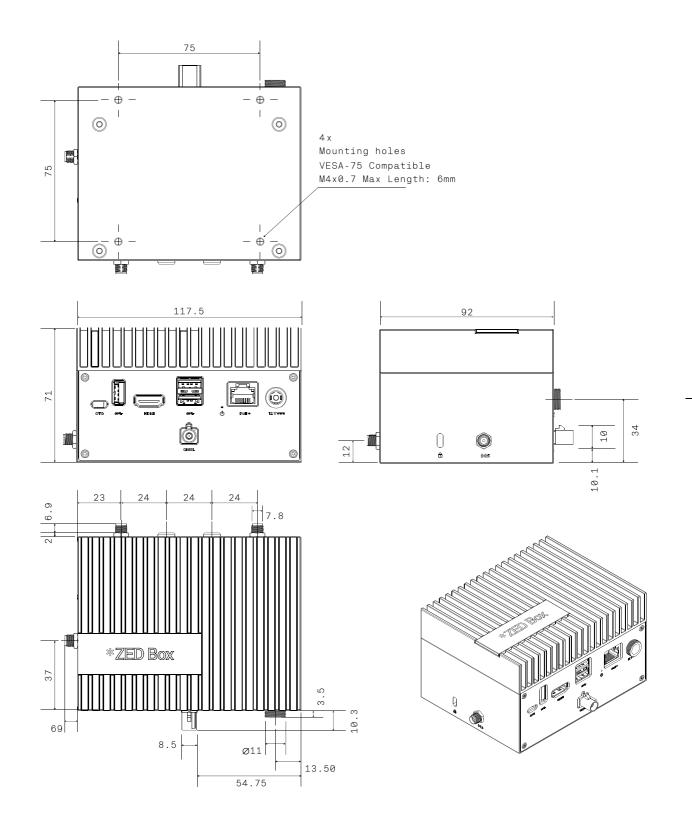
**Jetson Power** Modes 10W | 15W | 20W | MAXN (25W) PoE+ (20W) or DC-IN (35W, 12-19V) available Power with a locking ring Dimensions 118 x 92 x 71 mm (4.6 x 3.6 x 2.7") Weight 700g (1.5 lb) -25°C to 70°C (-13°F to 158°F) Operating Temperature **Mounting Options** 92x45mm mounting holes (3.6 x 1.7") wall brackets provided DIN-rail mounting possible (VESA-75) Case Industrial black aluminum case passively cooled

Operating System Ubuntu 20.04 (L4T)

\* All ZED Box Orin comes with a 256GB NVMe SSD. As an option it can be replaced by a 1TB NVMe SSD.

 $^{\ast\ast}\,$  The WiFi, GMSL2 and RTK GNSS modules are available as options.

#### stereolabs.com

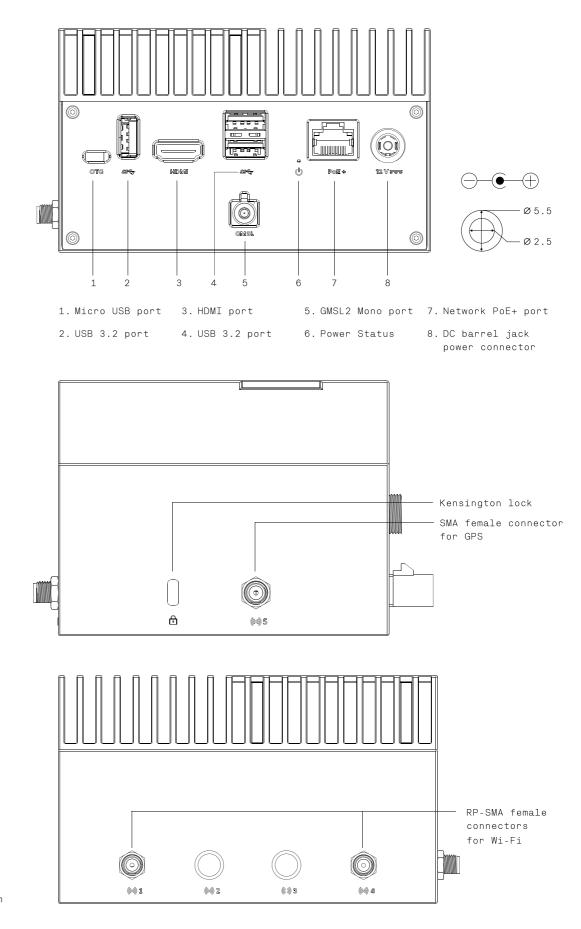


Dimensions are in mm

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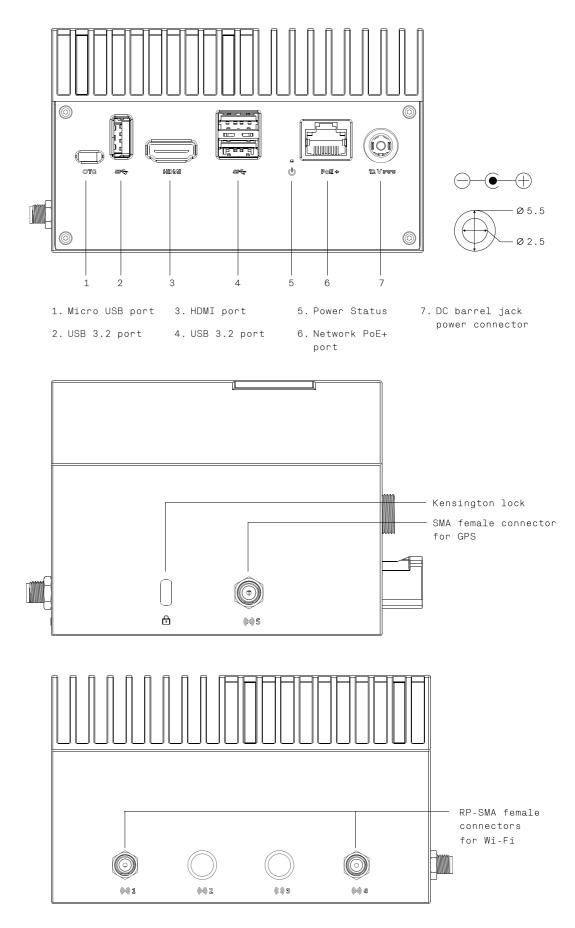
**GMSL2** Option



Dimensions are in mm

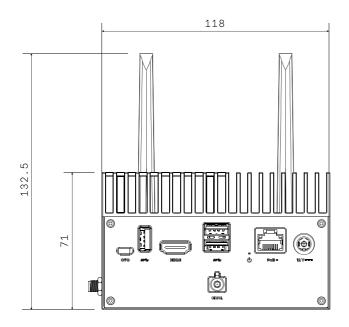
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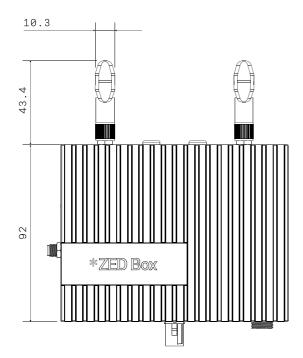
USB 3.2 Option

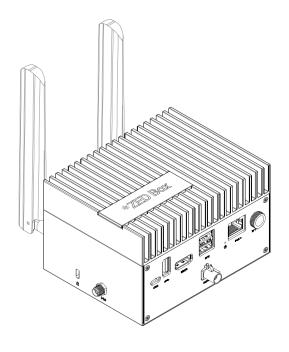


Dimensions are in mm

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Wifi antennas are shipped with the ZED Box

Dimensions are in mm

 Stereolabs provides mounting brackets for the ZED Gateways so it can be easily mounted to the walls and other areas as well.

> First, screw the brackets onto the bottom of the gateway using the slots provided.

