

Leetop-SUBKIT-Orin NX(16G) is an embedded artificial intelligence computer capable of giving computing power up to 70/100TOPS to a wide range of terminal devices. Leetop-SUBKIT-Orin NX(16G) provides fast active cooling design to meet industry standards such as earthquake resistance and anti-static. At the same time, Leetop-SUBKIT-Orin NX(16G) is rich in interfaces and cost-effective.

Specification:

	Jetson Orin NX 8GB	Jetson Orin NX 16GB
AI Performance	70 TOPS	100 TOPS
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	
CPU	6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Video Encode	1x 4K60   3x 4K30   6x 1080p60   12x 1080p30 (H.265) 1x 4K60   2x 4K30   5x 1080p60   11x 1080p30 (H.264)	
Video Decode	1x 8K30   2x 4K60   4x 4K30   9x 1080p60   18x 1080p30 (H.265) 1x 4K60   2x 4K30   5x 1080p60   11x 1080p30 (H.264)	
Memory	8 GB 128-bit LPDDR5 102.4 GB/s	16 GB 128-bit LPDDR5 102.4 GB/s
Storage	— (Supports external NVMe)	

## I/O :

Interface	Specification
Network	1 × Gigabit Ethernet Connector (10/100/1000)
USB	3x USB 3.0 Type A (Integrated USB 2.0) 1x USB 3.2 Type A 1x USB 2.0 +3.2Type C
Video output	1 × HDMI 2.0 (TYPE A)
CAN	1 × CAN
SPI Bus	1 × SPI Bus(+3.3V Level)
M.2 KEY M	1 × M.2 KEY M Interface(Type 2280)
M.2 KEY E	1 × M.2 KEY E Interface
Camera	CSI 2 line

## Power Supply:

Power Supply	Spec
Input Voltage	+9--+20V DC Input @7A
Typical consumption	60W

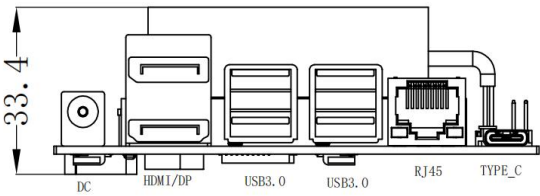
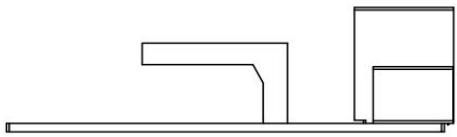
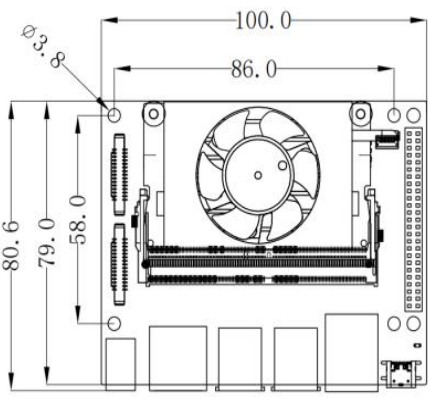
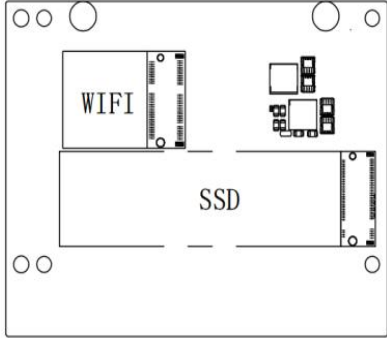
## Mechanical

Mechanical	Spec
Dimensions (W×D ×H)	100×80.6×33.4 (mm)
Weight	0.179KG

## Environmental

Environmental	Spec
Operating Temperature	-20℃-75℃ 0.2~0.3m/s
Storage Humidity	10%-90% non-condensing

## Schematic diagram of dimensions:

Front view	Left view
	
Up view	Rear view
	

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.