Leetop Technology GE Kit Orin User Manual

Contents

GE Kit Orin

GEKit Orin is an embedded artificial intelligence computer independently designed and developed by Leetop based on Nvidia AGX Orin module, which can give computing power up to 200/ 275 Tops to m any terminal devices.

GE Kit Orin can be applied t o autonomous machines such as robot s, unmanned delivery vehicles, intelligent gates and intelligent sales containers. It is an ideal carrier for deep learning by deploying AI com puting power at the edge.

	Data	
Module	Nvidia Jetson AGX Orin 32GB	Nvidia Jetson AGX Orin 64GB
AI	200 TOPS	275 TOPS
CPU	8 core Arm® Cortex®-A78AE v8.2 64 bit CPU 2MB L2 + 4MB L3	12 core Arm® Cortex®-A78AE v8.2 64 bit CPU 3MB L2 + 6MB L3
GPU	56 Tensor Core, 1792 core GPU with NVIDIA A mpere framework	64 Tensor Core, 2048 core GPU with NVIDIA A mpere framework
Video me mory	32GB 256 bit LPDDR5 204.8GB/s	64 GB 256 bit LPDDR5 204.8GB/s
Memory	64GB eMMC 5.1	64GB eMMC 5.1
Video codi g	1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)	2x 4K60 (H.265) 4x 4K30 (H.265) 8x 1080p60 (H.265) 16x 1080p30 (H.265)
video dec oding	1x 8K30 (H.265) 2x 4K60 (H.265) 4x 4K30 (H.265) 9x 1080p60 (H.265) 18x 1080p30 (H.265)	1x 8K30 (H.265) 3x 4K60 (H.265) 7x 4K30 (H.265) 11x 1080p60 (H.265) 22x 1080p30 (H.265)
Power	15W | 40W	15W | 60W

I/O:

interface	Specifications
DC	Power supply
Video output	1 x HDMI
USB	2 x USB3.2 Type-A 1 x USB 2.0 Link TYPE C
Network	1 x GigabitEthernet (10/100/1000) 1 x 10 GigabitEthernet(10/100/1000/10000)
User Expansion	1 x TF card
CAN FD	1 x CAN FD
Memory	1 x M.2(Type 2280)
Function Key	1 x Power KEY, 1 x Reset KEY, 1 x Recovery KEY Button

Power Supply:

Power Supply	Spec
Input Voltage	Wide input 9- 20V DC 10A
Power consumption	up to 90W

Mechanical

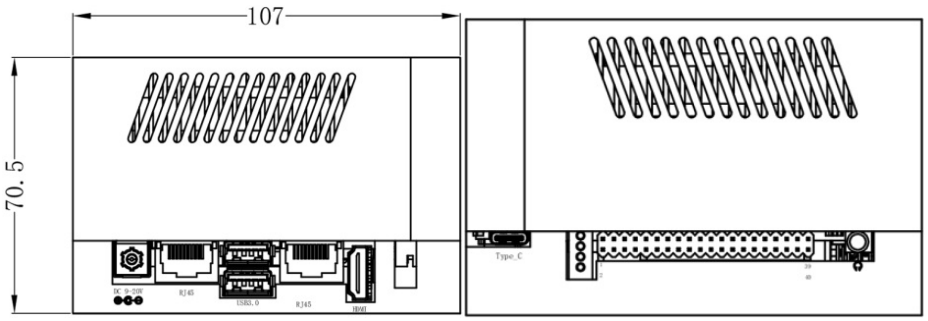
Mechanical	Spec
Dimensions (W×D×H)	107×106.4×70.5 (mm)
Weight	3.65Kg

Enviromental

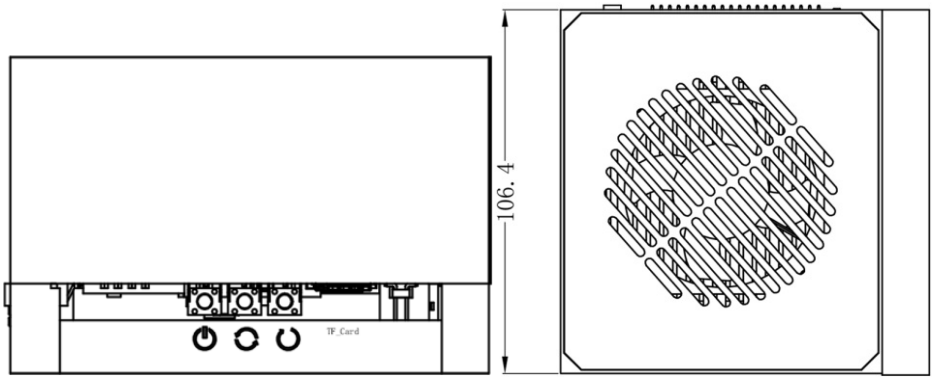
Environmental	Spec
Operating Temperature	-25℃- +70℃
Storage Temperature	-20℃-60℃
Storage Humidity	10%-90% non-condensing

Appearance

Front view **rear view**



left view **up 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 radiateradio 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.

Documents / Resources

	**Leetop Technology GE Kit Orin** [pdf] User Manual GEKIT-ORIN, GEKITORIN, 2BAGU-GEKIT-ORIN, 2BAGUGEKITORIN, GE Kit Orin, Kit Orin, Orin