

IBOX-105-ARM-2L6C



- The device comes with Quad-Core ARM Cortex-A55, up to 2.0GHz, with NPU support 1Tops;
- Multi-Media support 4K 60fps H.265/H.264/VP9 decoder, 1080P 60fps H.265/H.264 encoder, 8M ISP with HDR;
- Fine-grained power control ensures Cortex-A55 delivers high performance with superior efficiency.
- Full aluminum alloy anti-interference structure with modular parts design offers stronger system stability;
- Fully enclosed with fanless cooling system and cable-free design for better vibration resistance;
- Multiple mounting options available, DIN-Rail, Wall-Mount, Embedded.



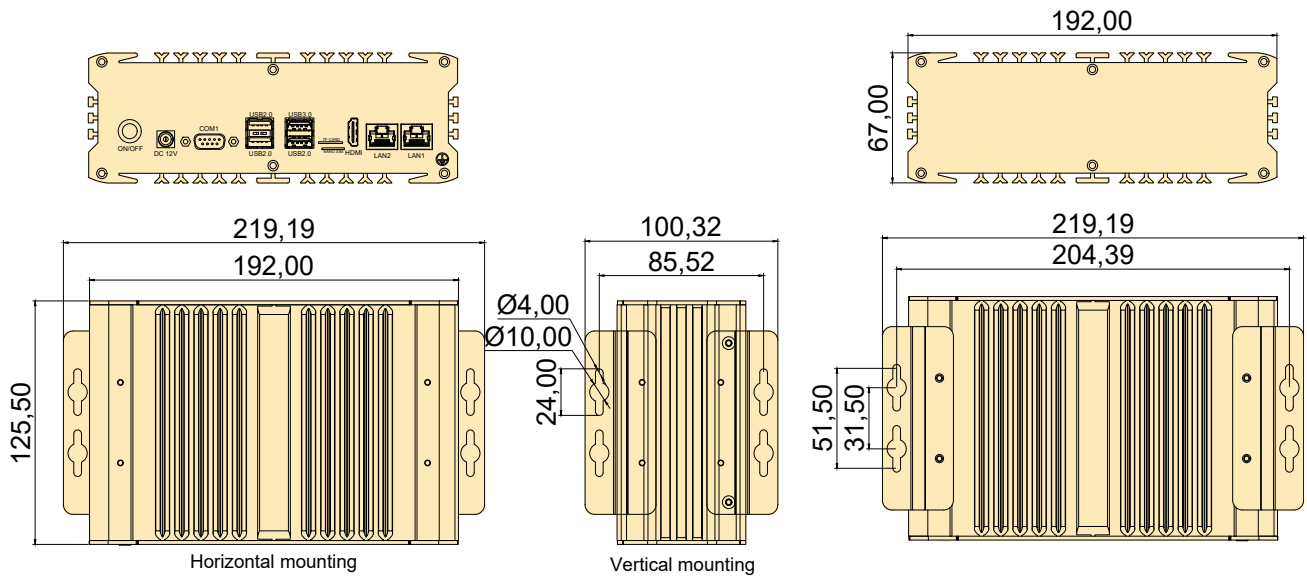
The actual appearance is subject to the final configuration

Specifications

Model	IBOX-105-ARM-2L6C		
Supported OS	Android 11, Linux (Ubuntu, Debian, Kali, CentOS, etc.)		
SoC	ARM Rockchip RK3568, Quad-core Cortex-A55, Clock speed up to 2.0GHz		
RAM	SDRAM	SDRAM LPDDR4X-3200MHz on board	
	Capacity	8G	4G 2G
Storage Device	eMMC	eMMC 5.1 64G	eMMC 5.1 32G eMMC 5.1 16G
	Form factor	2 * SATA3.0 7P Connector (with 2 * SATA Power Header); 1 * TF Card Slot	
I/O Interface	COM	1 * RS232/485 (COM1, DB9M/Header, selected by jumper); 1 * RS232/485 (COM2, Header, selected by jumper) 4 * RS232 (COM3/4/5/6, Header)	
	Ethernet	2 * Realtek GBE LAN Chip (RJ45, 10/100/1000 Mbps)	
	CANBus	Optional 2* CANBus header, support CAN FD, CANBus 2.0	
	USB	1 * USB3.0/OTG (TYPE-A, Rear IO); 3 * USB2.0 (TYPE-A, Rear IO) 6 * USB2.0 (Header, Internal)	
	Video	1 * HDMI (TYPE-A), max resolution up to 4096x2304@60Hz	
	Audio	1 * Front Audio Header (Line-Out + MIC) 1 * Amplifier Header	
	SIM	1* External Nano SIM card slot, 1* Internal SIM card slot	
	Power Supply	DC 9-36V	
	Other	8 * GPIO; 1 * Recovery Button; 1 * Power Button Header; 1 * System Reset Header; 1 * Power LED Header; 1 * SPI Header; 2 * TP I2C Header; 1 * System FAN Header; 2 * Debug Header; 1 * Cash Header; 1 * AT or ATX Select Jumper	
Extended Capabilities	Additional Interface	1 * Mini PCIe Slot (4G/3G+WIFI, with 1 * SIM Card Header / 1 * Nano SIM Card Slot) 1 * M.2 (NGFF) Key-B Slot (PCIe 3.0/PCIe2.0/USB3.0/SATA, 2242/3052)	
	Functionality Extension	WiFi, 4G, 5G, CANBus	
Environment	Operating Temperature	-10 ~ 70 °C w/ 0.7m/s Airflow	
	Storage Temperature	-40 ~ 85 °C (-40~185 °F)	
	Relative Humidity	40 °C @ 95%, Non-Condensing	
Physical Characteristics	Dimensions	192* 67* 145 mm (W* H* D)	
	Net Weight	2.05 KG	
Regulation	EMC	CE/FCC Class B, CCC	
	Safety	CE-LVD, RoHS, CCC	

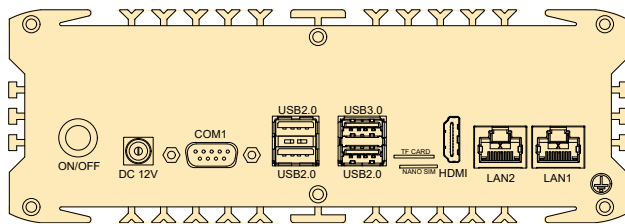
Dimension

Unit:mm

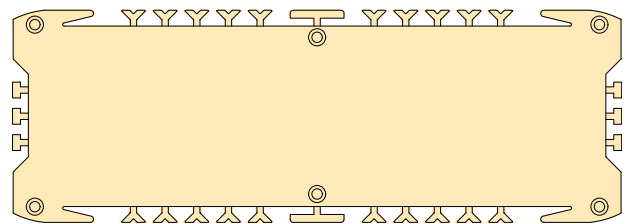


The actual appearance and dimensions are subject to the final configuration

Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

SDRAM	eMMC 5.1	SATA 3.0	M.2 3052 B-key Slot	Full Size Mini-PCle	RS232/RS485	RS232	GbE LAN	CANBus Header
LPDDR4, 8G/4G/2G	64G/32G/16G	2	1	1	2	4	2	2
USB 3.0/OTG	USB 2.0	USB2.0 Header	HDMI	Line-Out+Mic Header	Amplifier Header	External SIM Card Slot	8-bit GPIO Header	Power Supply
1	3	6	1	1	1	1	1	DC 12V

Processor Information

Model	RK3568
CPU	Quad-Core ARM Cortex-A55, up to 2.0GHz
GPU	ARM G52 2EE Support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 High performance dedicated 2D processor
NPU	Support 1T
Multi-Media	Support 4K 60fps H.265/H.264/VP9 decoder Support 1080P 60fps H.265/H.264 encoder Support 8M ISP with HDR

Media Processing Capability

4K Video Decoder	GPU Mali-G52-2EE
1080p Video Encoder	2D Graphics Engine
JPEG Codec	IEP
8M ISP	

Packing list

Default Items	Qty
IBOX-105-ARM-2L6C Unit	1
AC-to-DC Adapter	1
Wall mounting bracket	2
Power cable 3-pin 150cm	1

Options for default items

Optional Items	Qty
Power cable 3-pin 150cm, USA type	-
Power cable 3-pin 150cm, EU type	-
Power cable 3-pin 150cm, UK type	-
VESA mount kits	-
DIN Rail mount kits	-

Optional accessories or internal modules for unit

Optional Items	Max Qty	Description
AI Acceleration Card	1	13 TOPS, Connected by Mini-PCIe interface or M.2 interface
4G Module	1	Connected by Mini-PCIe interface or M.2 interface
5G Module	1	Connected by M.2 interface
Dual channel CAN-Bus Module	1	Connected by Mini-PCIe interface

!! Note: As this product has expansion slots, please consult sales for the specific maximum number of expandable interfaces.