

# AVerAI EX731-AAH2 Box PC

EX731-AAH2-2AC0 Box PC provides 2x HDMI 4Kp30 inputs  
It equips NVIDIA® Jetson™ TX2 module with active cooling system

## Description



AVerMedia's EX731-AAH2-2AC0 Box PC equips NVIDIA® Jetson™ TX2 module and 2x 4Kp30 capture cards for analyzing dual 4Kp30 video inputs. This compact product's dimension is W:117.2mm x L:76.8mm x H:94.1mm (4.61" x 3.02" x 3.70", with mounting ears W:144.8mm, 5.7"). It provides 2x M.2 Key M 2280 slots to support 2x AVerMedia's M.2 capture cards, CN311-H, for capturing 2x 4Kp30 video inputs. These two M.2 slots also support SSD for video recording applications.

The AVerMedia's EX731-AAH2-2AC0 design includes 2x HDMI-out, 1x USB 3.0, 1x Gigabit Ethernet RJ-45, 1x USB OTG, 1x micro SD card slot, 2x M.2 Key M 2280 slots, and 40 pins of GPIO expansion with 1x 3.3V UART, 1x I2C, and 7x GPIOs.

This Box PC equips a customized chassis with active cooling system. It is one of the best compact Application Ready System by supporting NVIDIA® Jetson™ TX2 module for you to capture dual 4Kp30 video inputs and run your edge computing algorithms for high-end video analysis application markets.

## Features

- Fully support NVIDIA® Jetson™ TX2 module
- 2x HDMI 4Kp30 inputs
- 1x USB3.0 and 1x Gigabit Ethernet RJ-45
- 2x HDMI-out
- Dimension:  
W:117.2mm x L:76.8mm x H:94.1mm  
(4.61" x 3.02" x 3.70", with mounting ears W:144.8mm, 5.7")

## Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 3 categories of Embedded Vision Solutions for AI application on the edge devices, with the support of NVIDIA Jetson family, battery power, HDMI/VGA/3G-SDI/Composite video sources, and the direct technical support for developers.

- Standard and customized of Nano/Tegra/AGX Xavier/Xavier NX carrier boards.
- Standard and customized Nano/Tegra/AGX Xavier/Xavier NX application-ready systems.
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

## Why AVerMedia

- As NVIDIA® PREFERRED solution provider, AVerMedia gets the direct support from NVIDIA. We are able to offer technical support in 24 hours to help your project success.
- Support full range of NVIDIA Jetson modules, including Nano, Tegra, and AGX Xavier.
- Support various video input sources from IP camera, USB camera, MIPI camera, and capture cards supporting HDMI/VGA/3G-SDI/Composite video sources.
- Provide customization services of HW, PCB, chassis, BSP, driver, and UX/UI/ID/ME design.
- Supports 65°C/149°F operating temperature in the No-Air-Flow environment for fanless system designed by using AVerCooler technologies.
- Provide flexible user-configured security to protect the SW.

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## Specifications

Type	Box PC with Active Cooling System
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson™ TX2 module
Networking	1x GbE (RJ-45)
Display Output	TX2: 2x HDMI Type A, 3840 x 2160 at 60Hz
Temperature	Operating temperature 0~40°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, non-condensing
USB	1x USB3.0 Type A (USB 3.2 Gen1x 1 )
Storage	1x micro-SD card 1x SATA 3Gb/s
GPIO Expansion	1x 3.3V UART, 1x I2C, 7x GPIOs
CAN Bus	1x CAN bus with transceiver
RS-485	1x RS-485
Microphone	1x 3.5mm phone jack microphone input
User Expansion	2x HDMI 4Kp30 video inputs by using 2x CN311-H
Input Power	12V/5A
Buttons	Power and Recovery (Each button has a RGB tri-color LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Chassis Dimension/ Weight	W:117.2mm x L:76.8mm x H:94.1mm 4.61" x 3.02" x 3.70", with mounting ears W:144.8mm, 5.7" Weight: 884.2 g
Certifications	CE, FCC, MSIP

## Compatible Cards



Model Name	CN311-H
Host Interface	PCIe Gen2 x2
Max Input Resolution	4096x2160 30fps
Max Record Resolution	4096x2160 30fps
Channel No.	1
H/W Encode	
Audio Interface	HDMI embedded
Video Interface	HDMI
Color Depth/Precision	8 / 10 bit
Color Format	YUY2, YUYV
Operating Temperature	0°C~40°C
Dimensions ( LxW ) mm	22x80

## Order Information

Standard Product	Product Name	M.2/mPCIe Video Input	NVIDIA Jetson SoM	Cooling System	Wireless
	EX731-AAH2-1AC0	2x HDMI 4Kp30	TX1	Active Cooling	N/A
●	EX731-AAH2-2AC0	2x HDMI 4Kp30	TX2	Active Cooling	N/A
	EX731-AAH2-3AC0	2x HDMI 4Kp30	TX2i	Active Cooling	N/A
	EX731-AAH2-4AC0	2x HDMI 4Kp30	TX2 4GB	Active Cooling	N/A
	EX731-AAH2-1ACW	2x HDMI 4Kp30	TX1	Active Cooling	Wi-Fi/BT
	EX731-AAH2-2ACW	2x HDMI 4Kp30	TX2	Active Cooling	Wi-Fi/BT
	EX731-AAH2-3ACW	2x HDMI 4Kp30	TX2i	Active Cooling	Wi-Fi/BT
	EX731-AAH2-4ACW	2x HDMI 4Kp30	TX2 4GB	Active Cooling	Wi-Fi/BT

\* All specifications are subject to change without prior notice.



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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