AVerMedia

NVIDIA PREFERRED SOLUTION PROVIDER

AVerAI EX731-AAH2 Box PC

EX731-AAH2-2AC0 Box PC provides 2x HDMI 4Kp30 inputs
It equips NVIDIA® Jetson™ TX2 with active cooling system without Wi-Fi/BT

Description

AVerMedia's EX731-AAH2-2AC0 Box PC equips NVIDIA® Jetson™ TX2 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 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
- 2x HDMI 4Kp30 inputs
- 1x USB3.0 and 1x Gigabit Ethernet RJ-45
- 2x HDMI-out
- Compact 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 5 categories of Embedded Vision Solutions for deep learning application on the edge devices, with the support of battery power and HDMI/VGA/3G-SDI/Composite video sources and the direct technical support for developers.

- Standard and customized TK1 modules and carrier boards
- Standard and customized TX1/TX2/TX2i/AGX Xavier/Nano carrier boards
- Standard and customized TK1 single boards
- Standard and customized TK1 and TX1/TX2/TX2i/AGX Xavier/Nano application-ready systems
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- Innovative, patented passive cooling thermal designs for No-Air-Flow environment: AVerCooler, WaveFin, and Surfax.
- Full customization ability with our in-house HW and SW development teams.
- Timely support from NVIDIA® as we are a NVIDIA® Jetson Preferred Partner.
- Stable supply as we are a financially sound company.

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Specifications

Type	Box PC with Active Cooling System
NVIDIA GPU SoC Module Compatibility	NVIDIA®Jetson™ TX2
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

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		I420, NV12, YV12, IYU2, YUY2, YUYV, UYVY, AYUV, RGB565, RGB555, RGB24, RGB32, ARGB32, XRGB, V210, Y210, V410, Y410
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.

RoHS 2 COMPLIANT

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