

**AVerMedia**



**PREFERRED  
SOLUTION  
PROVIDER**

# AVerAI EX713-AA00 Box PC

EX713-AA00-2AC0 Box PC provides 1x full-height mPCIe slot  
It equips NVIDIA® Jetson™ TX2 module with active cooling system

## Description



AVerMedia EX713-AA00-2AC0 Box PC with NVIDIA® Jetson™ TX2 module is designed for using in Intelligent Video Analysis. This product provides full-height mPCIe Gen2 x1 to support AVerMedia mPCIe video capture cards, such as C353 for 1080p60 HDMI/VGA input, CM313B for 1080p60 3G-SDI input and C351 for 4-channels SD composite inputs. The mPCIe slot also support mPCIe Ethernet and EtherCAT cards for industrial motion control applications.

AVerMedia EX713-AA00-2AC0 design includes 1x HDMI-out, 2x external USB 3.0, 2x internal USB 3.0, 1x Gigabit Ethernet RJ-45, 1x USB OTG, 1x SD card slot, 1x SATA, 1x full-height mPCIe slot, and 40 pins of GPIO expansion with 1x 3.3V UART, 1x I2C, and 7x GPIOs.

## Features

- Support NVIDIA® Jetson™ TX2 module
- PCB dimension: Mini-ITX, 170 mm x 170 mm (6.7" x 6.7")
- 1x full-height mPCIe slot
- 1x HDMI-out
- Support AVerMedia mPCIe video capture cards for HDMI/VGA/SDI/Composite signal

EX713-AA00-2AC0 Box PC is designed as an application ready platform to provide a total solution for multiple applications to improve the performance and flexibility for time to market. With EX713-AA00-2AC0 Box PC, software developers not only can design their AI software on this platform but also can market their software plus the platform as a complete solution. This can greatly help to simplify the effort and processes of the system integration in launching their AI solution into the market.

## 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                      | 1x HDMI-out type A, maximum resolution: 3840 x 2160 at 60Hz                                                           |
| Temperature                         | Operating temperature 0°C ~ 50°C<br>Storage temperature -40°C ~ 85°C<br>Relative humidity 40 °C @ 95%, Non-Condensing |
| USB                                 | 2x external USB 3.0 Type A (USB 3.2 Gen1x 1)<br>2x internal USB 3.0 (USB 3.2 Gen1x 1)                                 |
| Storage                             | 1x SATA 3Gb/s and SATA Power (optional), 1x SD card                                                                   |
| GPIO Expansion                      | 40 pins: 1x 3.3V UART, 1x I2C, and 7x GPIOs                                                                           |
| User Expansion                      | 1x full-height mPCIe                                                                                                  |
| Input Power                         | 150W                                                                                                                  |
| Buttons                             | Power, Reset, Recovery, and Sleep buttons                                                                             |
| Chassis Dimension/ Weight           | W: 244mm x L: 217mm x H: 84mm (9.6" x 8.6" x 3.3")<br>Weight: 2510g                                                   |
| Certifications                      | CE, FCC                                                                                                               |

## Compatible Video Capture Cards:



| Model Name            | CM313B          | CM313BW    | C351         | C351W      |
|-----------------------|-----------------|------------|--------------|------------|
| Host Interface        | PCIe Gen1 x1    |            | PCIe Gen1 x1 |            |
| Max Input Resolution  | 1920x1080 60fps |            | NTSC/PAL     |            |
| Max Record Resolution | 1920x1080 30fps |            | NTSC/PAL     |            |
| Channel No.           | 1               |            | 4            |            |
| H/W Encode            | ●               |            |              |            |
| Audio Interface       | SDI embedded    |            | RL (RCA)     |            |
| Video Interface       | SDI             | ●          |              |            |
|                       | HDMI            |            |              |            |
|                       | DVI             |            |              |            |
|                       | VGA             |            |              |            |
| Color Depth/Precision |                 |            | ●            |            |
|                       |                 |            |              |            |
| Color Format          | YUY2            |            | YUY2         |            |
| Operating Temperature | 0°C~55°C        | -40°C~85°C | 0°C~55°C     | -40°C~85°C |
| Dimensions ( LxW ) mm | 50.95x30        |            | 50.95x30     |            |

\* 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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