

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 Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
USB	2x external USB 3.0 Type A (USB 3.2 Gen1x 1) 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") 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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