

AVerAI EX715-AA00 Carrier Board

EX715-AA00-0000 Carrier Board supports 1x USB 3.0, 1x GbE, and 1x 4Kp60 HDMI-out
It fully supports NVIDIA® Jetson™ TX1/TX2/TX2i/TX2 4GB modules



Features

- Fully support NVIDIA® Jetson™ TX1/TX2/TX2i/TX2 4GB modules
- 1x GbE, 1x USB 3.0, 1x 4Kp60 HDMI outputs
- 1x micro USB2.0, 1x micro SD
- 20-pin with 2x 3V3 UART, 1x I2C , 4x GPIOs
- Operating temperature: -40°C ~ 85°C
- Dimension:
L:87mm x W:50mm x H: 13.52mm(3.43"x1.97"x0.53")

Description

AVerMedia AVerAI carrier board EX715-AA00-0000 is designed for NVIDIA® Jetson™ TX1/TX2/TX2i/TX2 4GB modules and for the industry applications in the environment with the physical space concern and operation in the temperature range from -40°C to 85°C. It also features the very much compact dimensions of 87mm (L) x 50mm (W) x 13.52mm (H), with four Ø 3.2 mounting holes for the highly reliable field installation.

AVerAI EX715-AA00-0000 can provide the access to a list of rich I/O functions, which includes 1x GbE, 1x USB 3.0, 1x 4Kp60 HDMI outputs, 1x micro USB2.0, 1x micro SD, 20-pin with 2x 3V3 UART, 1x I2C and 4x GPIOs. It also comes with a single-mold PCB terminal block module for the easy power connection.

With the compact dimensions, design for reliable field installation, and the rich I/O functions, EX715-AA00 is the perfect choice for high performance AIoT edge computing in the intelligent video analytics applications of Smart City, Retail, Smart Camera, and Defense.

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	Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson™ TX1/TX2/TX2i/TX2 4GB modules
Networking	1x GbE RJ-45
Display Output	TX1: 1x HDMI Type A, 4096 x 2160 at 60Hz TX2: 1x HDMI Type A, 3840 x 2160 at 60Hz
Temperature	Operating temperature -40°C ~ 85°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
USB	1x USB 2.0 Micro-B 1x USB 3.0 Type-A (USB 3.2 Gen1 x 1)
Storage	1x microSD Card
GPIO Expansion	2x 3V3 UART, 1x I2C , 4x GPIOs
Input Power	3.5mm Screw Terminal, 9V~19V, (Max.60W)
Buttons	Power, Reset and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Chassis Dimension/ Weight	L: 87mm x W: 50mm (3.43" x 1.97") H: 13.52mm/0.53" - the tallest component height (from the top PCB surface of EX715-AA00) 29.19mm/1.15" - the total stack height (EX715-AA00 + TX1/TX2/TX2i/TX2 4GB modules, not include the heat sink) Weight:42.5g
Certifications	CE, FCC

* All specifications are subject to change without prior notice.

