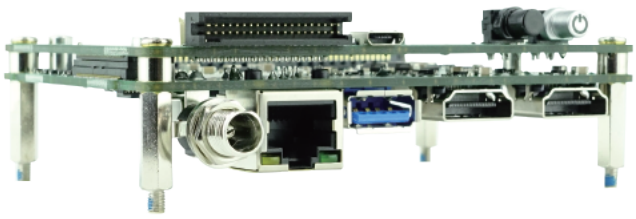
AVerMedia

NVIDIA PREFERRED SOLUTION PROVIDER

AVerAI EX731-AA00 Carrier Board

EX731-AA00-0000 carrier board provides 1x USB 3.0, 1x GbE, and 1x HDMI-out
It fully supports NVIDIA®Jetson™ TX2/ TX1



Description

AVerMedia's EX731-AA00-0000 carrier board for NVIDIA® Jetson™ TX2/ TX1 is designed for use in Smart Surveillance. This product provides a stackable compact design by following Pico-ITX dimension (100mm x 72mm, 3.9" x 2.8") and support EX731 daughter boards family to provide extra I/O, such as 4x USB3.1 Gen1, 4x Gigabit Ethernet RJ-45, 2x USB3.1 Gen1 + 2x Gigabit Ethernet RJ-45, 2x M.2 Key B+M slots, or 2x Mini-PCIe slots.

The AVerMedia's EX731-AA00-0000 design includes 1x HDMI-out (TX2 support 2x HDMI-out), 1x USB 3.0, 1x Gigabit Ethernet RJ-45, 1x USB OTG, 1x micro SD card slot, and 40 pins of GPIO expansion with 1x 3.3V UART, 1x I2C and 7x GPIOs.

This carrier is able to equip a customized chassis with active cooling system. It is one of the best compact Application Ready Platform by supporting NVIDIA® Jetson™ TX2/ TX1 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, and TX1
- Compact PCB dimension: Pico-ITX, 100 mm x 72mm (3.9" x 2.8")
- 1x USB3.0 and 1x Gigabit Ethernet RJ-45
- 2x HDMI-out (TX1 supports 1x HDMI-out only)

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	Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA®Jetson™ TX2/ TX1
Networking	1x GbE (RJ-45)
Display Output	TX1: 1x HDMI Type A, 4096 x 2160 at 60Hz TX2: 2x HDMI Type A, 3840 x 2160 at 60Hz
Temperature	Operating temperature -20°C ~ 85°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, non-condensing
USB	1x external USB3.0 Type A (USB 3.2 Gen1x 1)
Storage	1x micro-SD card
GPIO Expansion	1x 3.3V UART, 1x I2C, 7x GPIOs
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
PCB/ Electronics Mechanical Info	Pico-ITX , 100mm x 72mm (3.9“ x 2.8“) Weight: 149g
Certifications	CE, FCC

* All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

R-R-AVM-EX731-AA00

MSIP Class A Statement (Korea)
사용자안내문
이 기기는 업무용 환경에¼¬ 사용할 목적으로 적합성평가를 받은 기기로¼¬ 가정용 환경에¼¬ 사용하는 경우 전파간섭의 우려가 있습니다.
This equipment has been tested for compliance with the intended use in a commercial environment. If the equipment is used in a domestic environment, it may cause radio interference.
※ 사용자 안내문은 “업무용 방송통신기자재”에만 적용한다.
※ User’s Guide applies only to "Commercial Broadcasting Communication Equipment".

AVerMedia

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Type : Carrier board
Model name : EX731-AA00